



product catalog

2008

components for industrial, building and home automation

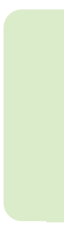
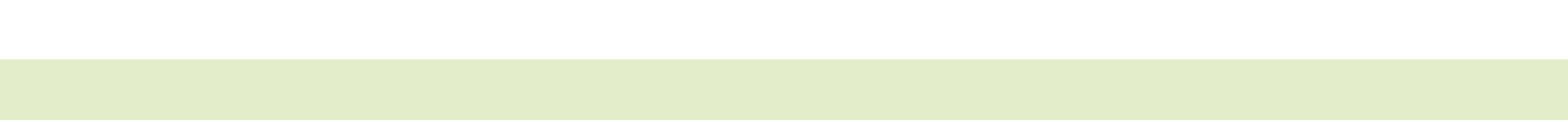
Publishing info

Cybrotech, Ltd.
14 Brinell Way
Harfreys Industrial Estate, Great Yarmouth
Norfolk, Nr31 0LU - UK
www.cybrotech.co.uk

Copyright © 2008 by Cybrotech, Ltd.
Document edition: September 2008
Publication code: PBL-CL-EN-09-2008
Design: MB

Disclaimer:
Cybrotech Ltd reserves the right to change the document contents, product list or technical specifications without warning or notification. Due to product design changes, product photos may vary from the actual product. Latest edition of this Product catalog can be downloaded from our official homepage.

cybroTech™ is a trademark of Cybrotech, Ltd.



Contents



About the system

System info	1
Installation	4
Success story	5
Pictograms	7

Controllers

RC	intelligent programmable room controller	9
CyBro-2-24	intelligent programmable controller	10
CyBro-2-230	intelligent programmable controller	11
uCyBro-2R	micro-controller with relay outputs	12
uCyBro-2T	micro-controller with transistor outputs	13
IPU	inverter controller	14

Modules

Bio-24R	relay I/O module	15
Bio-24T	transistor I/O module	16
Bio-8R4	high-power relay I/O module	17
8C	relay module	18
O2	high-power relay module	19
AiR-12	resistance input module	20
AiV-12	voltage input module	21
AiC-12	current input module	22
AoV-12	voltage output module	23
FC	fan coil unit control module	24
HR	hotel room control module	25
TS	temperature sensor module	26
LC-S	analog light control module	27
LC-D	DALI light control module	28
LC-DC	DALI light control module	29
SW-L	switch module	30
SW-W	switch module	31
SW-W2	switch module	32

Sensors

ES	external temperature sensor	33
THS02	room thermostat	34
MS	multisensor	35
LRI8134	multisensor	36
LRM8114	motion sensor	37
LRM8115	motion sensor	38
CAD-POTI	electronic potentiometer	39

Operator panels

OP-1	IEX operator panel	40
OP-2	IEX operator panel	41
OP-3	IEX operator panel	42
OP-4	IEX operator panel	43
OPT04/05	color touch screen operator panel	44
OPT05E/08E	color touch screen operator panel	45
OPT10E/12E	color touch screen operator panel	46
WS-12	PC workstation	47

Accessories

GSM-ETH-RT	GPRS router	48
GSM-T02	GSM modem	49
TD-101	GPS/GPRS tracking module	50
CAN-USB	USB to CAN interface	51
CAD-232-A2	A-bus converter	52
CAD-BE	bus expander	53
CAD-BA	bus adapter	54
CAD-SPL	bus splitter	55
CAD-CEX	bus adapter/splitter	56
CAD-TP2x2	IEX bus cable	57
RE	IR remote	58
RGB-D	RGB light controller	59

Power supply units

PS-30	switching power supply unit	60
PS-50	switching power supply unit	61
PS-80	switching power supply unit	62

Software

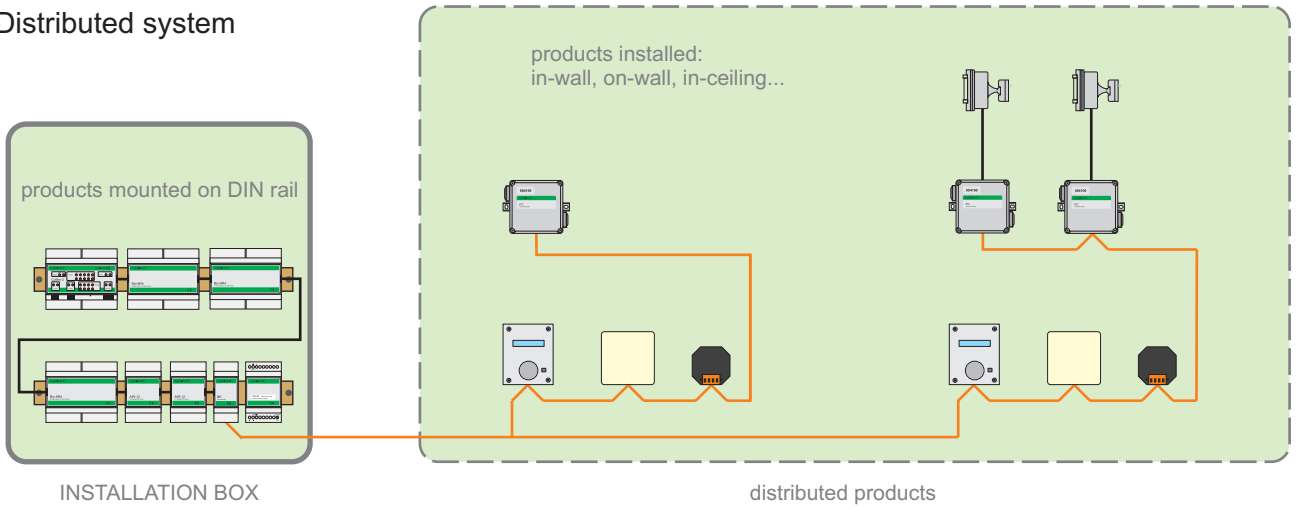
CyPro	integrated development environment	63
CyBro-OPC	data access server	64
Integra View	SCADA development environment	65

Warranty		66
Contacts		69
Notes		70

System info

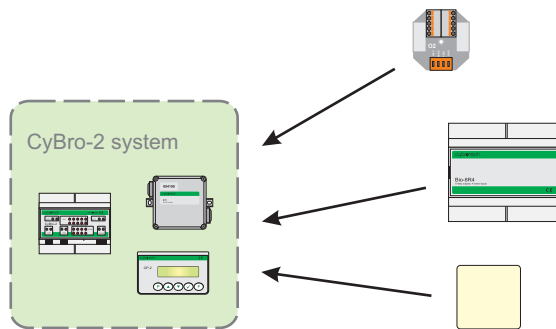


● Distributed system



* IEX bus connects all local and distributed modules to the controller.

● Intelligent modules



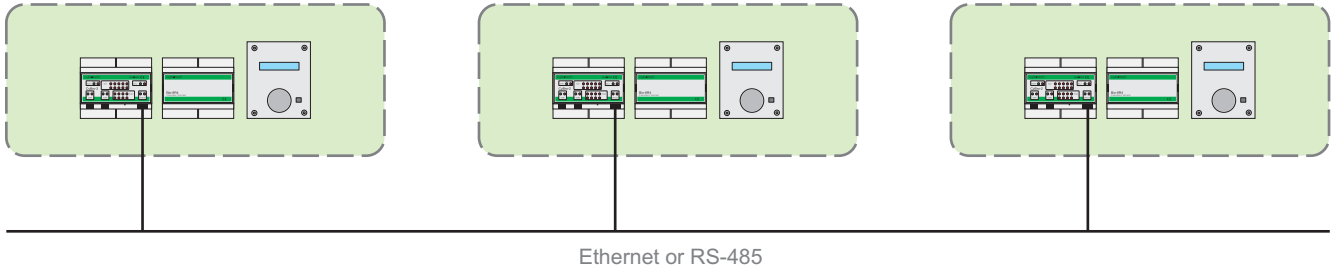
* No additional hardware or software configuration of a module is required, before adding it to the automation system.

● Unrestricted hardware configuration



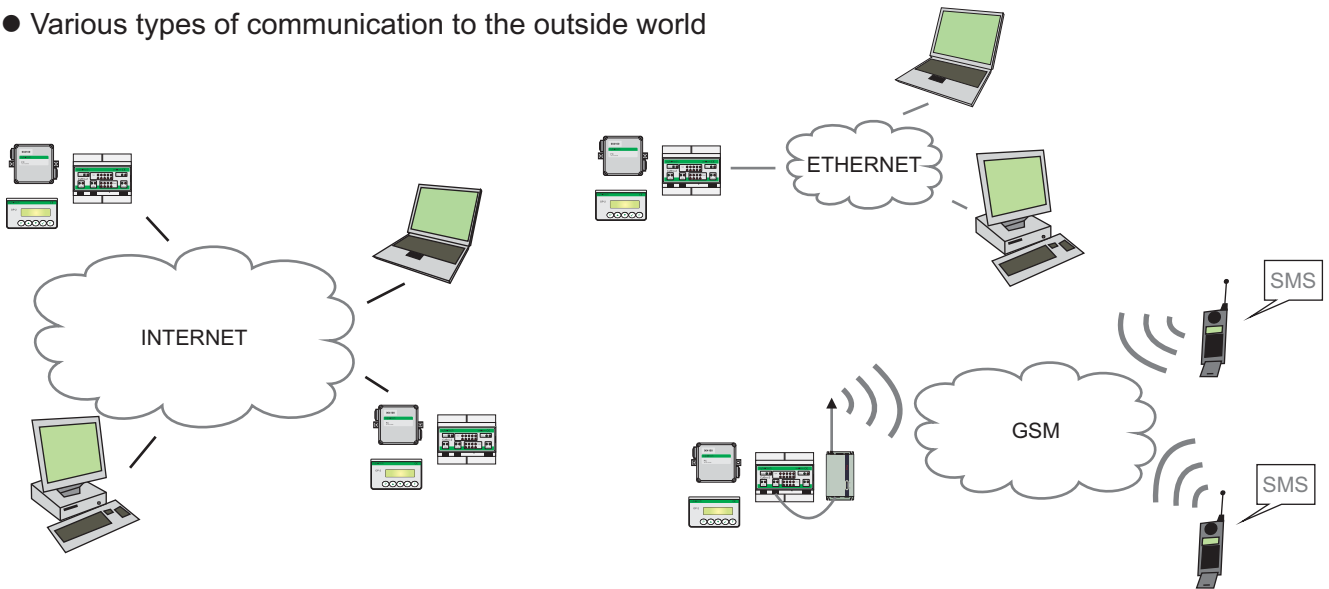
* Up to 31 modules of any type can be connected to each individual controller.

● Inter-controller communication

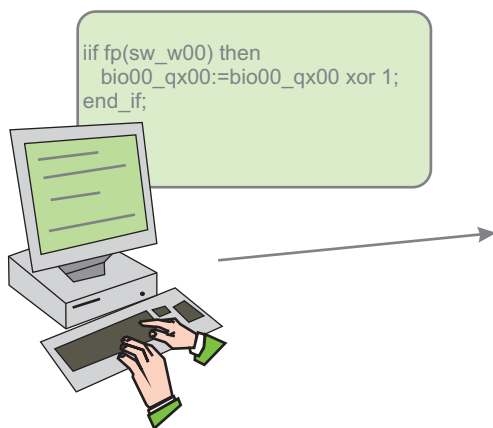


* Several Cybro-2 systems can share information using A-bus protocol, which can run over ethernet or RS-485 network

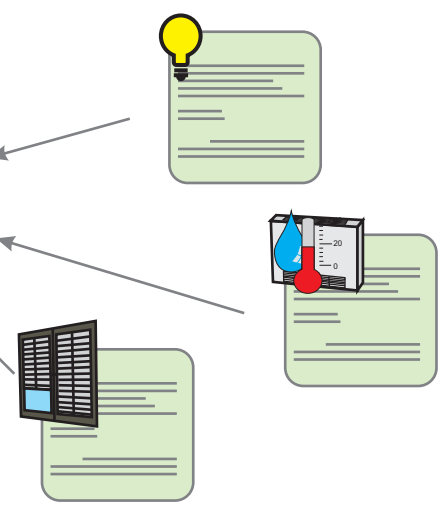
● Various types of communication to the outside world



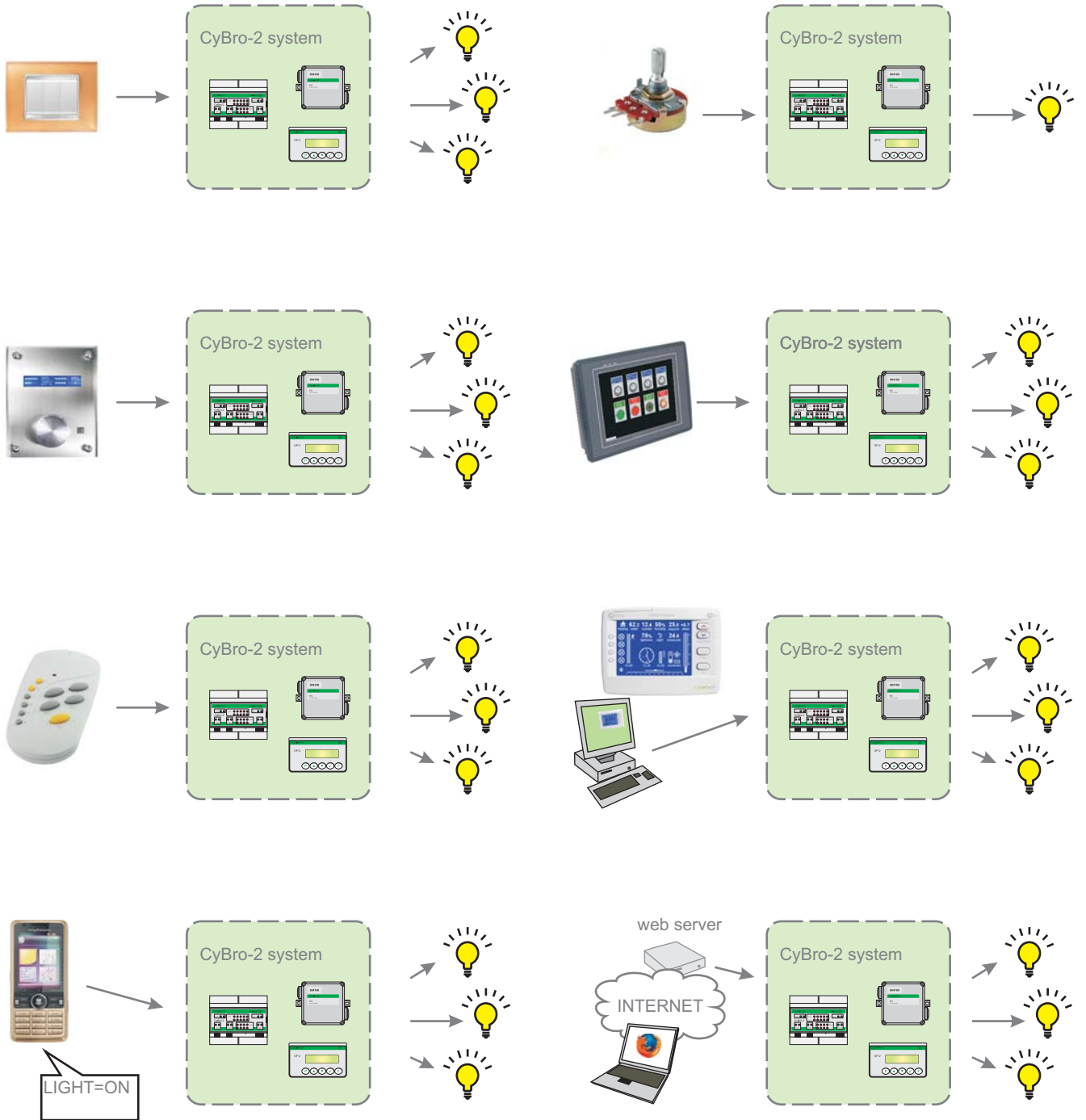
● Fully programmable



● Pre-programmed automation blocks available



● Freely selectable user interfaces



* Each user interface can affect any parameter of the system.



Installation

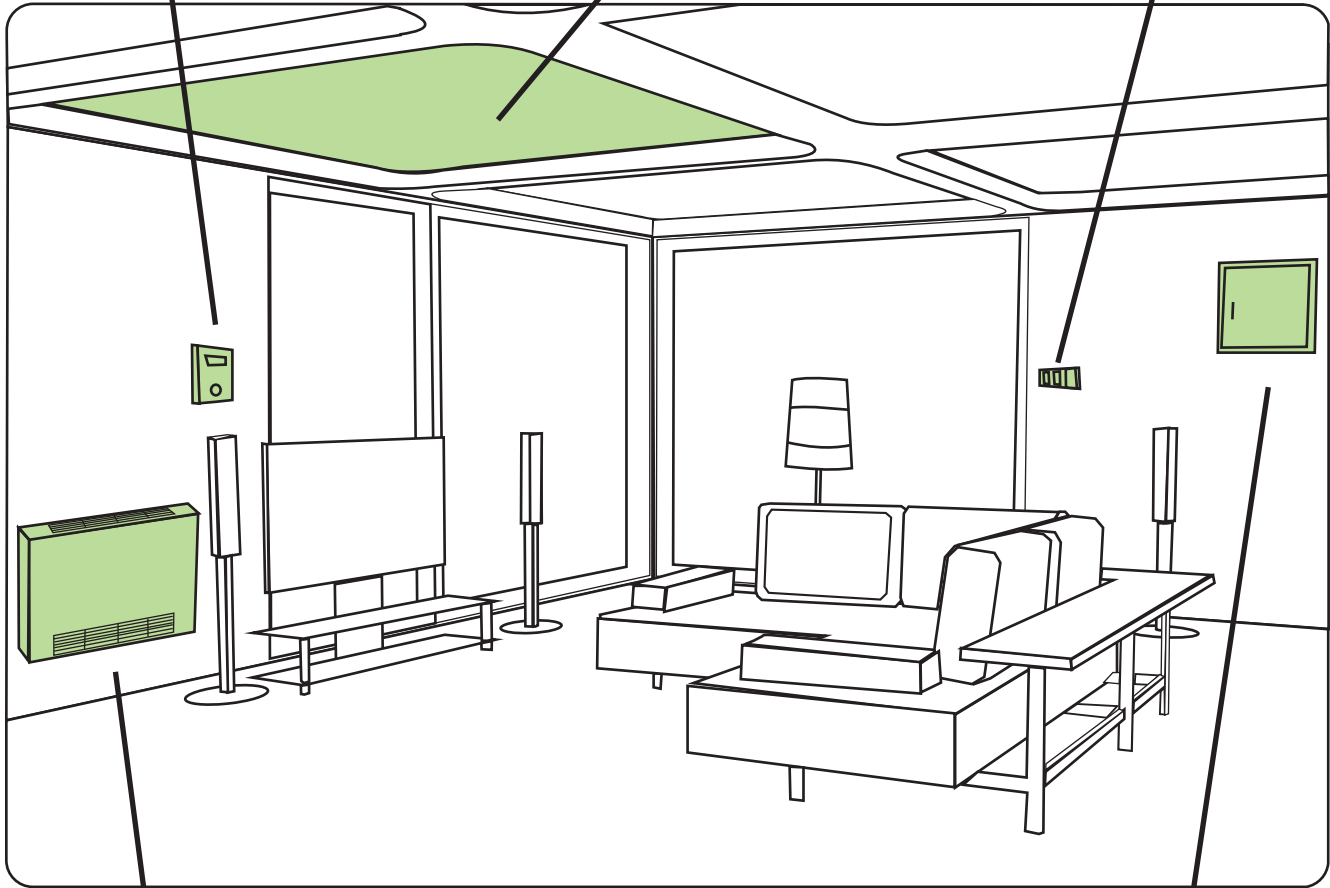
● ON-WALL



● IN-CEILING



● IN-WALL



● IN A FAN COIL UNIT



● INSTALLATION BOX



Success story









Business offices Primorje Ajdovščina, Slovenia



Primorje Group is a highly successful business system offering a comprehensive range of construction services. Its expertise, ample experience and overall implementation effectiveness are employed in all types of construction works in order to deliver integral and economical execution of any investment project.

- * heating/cooling control
- * lighting and shades control
- * custom-made SCADA control system

20x CyBro-2		116x Bio-24R		36x FC	
99x LC-D		70x TS		73x MS	








Resident park Lucija, Lucija, Slovenia



Lucija residential park is a complex of elite condominiums located in Lucija, near Slovenian coast. Each apartment is completely customized and constructed by individual specifications. All apartments are fully monitored and controlled from the reception

- * heating/cooling control
- * custom-made SCADA control system

164x CyBro-2		44x Bio-24R		460x FC	
128x Touch panels		447x ES			







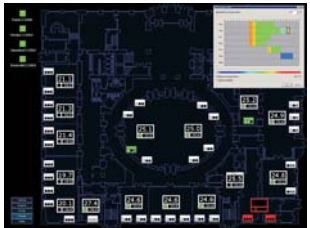
Regent hotel Esplanade Zagreb, Croatia



The Regent Esplanade Zagreb is one of the most renowned and (magnificent) hotels in the region. It is famed for its Art Nouveau architecture, amenities that offer true 21st century comfort and convenience, and highest standard of service.

- * heating/cooling control
- * custom-made SCADA control system

4x CyBro-2		40x FC	
4x OP-4		4x TS	



SpinoWraptor Epipack d.o.o., Slovenia



SpinoWraptor is a stretch-film automatic wrapping machine. Semi-custom PLC with integrated graphic LCD delivers superior control performance at an affordable price

- * control of stretch wrapper
- * integrated graphic user-interface

1x CyBro-2GM  1x OP-4 



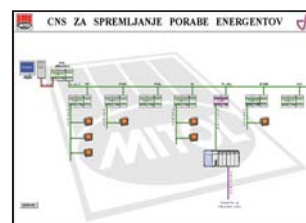
Energy monitor MITOL d.d., Slovenia



MITOL, d.d., offers a wide range of products that draw on over 60 years of tradition, is among the Europe's top adhesives manufacturers. MITOL, d.d. is one of the few adhesive manufacturers to produce their own emulsions.

- * system for reducing energy consumption based on Wizcon SCADA control system

7x CyBro-2  1x CyBro-1 



Manufacturing Execution System, POLYCOM d.o.o., Slovenia



POLYCOM is a rapidly growing supplier of advanced plastic parts and molding tools. It employs the CyBro subsystem to ensure automatic output count, on-line monitoring of machine cycle time, consistent monitoring of on-spot standstills / halts, and real-time data processing.







- * production monitoring, reporting and system management

1x CyBro-2  1x 8C  1x OP-2 

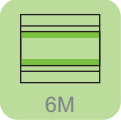



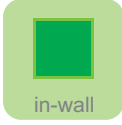
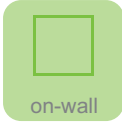






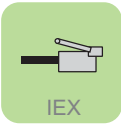
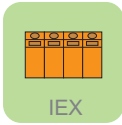

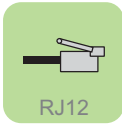
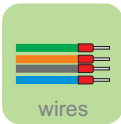
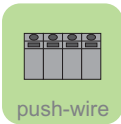
Pictograms

		Digital	Analog	
Mounting	 6M	 10x opto 230V	 4x 0..10V 0..20mA	Inputs
Connection type	 IEX	 8x relay 16A	 1x 0..10V	Outputs

Mounting

-  35mm DIN rail (6M dimension)
-  35mm DIN rail (3M dimension)
-  35mm DIN rail (2M dimension)
-  in-wall round installation box
-  in-wall square installation box
-  on-wall mounting
-  special mounting
-  on-ceiling round installation box

Connection type

-  Product connected to IEX network via RJ9 connector.
-  Product connected to IEX network via push-wire terminal.
-  Product connected to IEX network via wires.
-  Product connected via RJ12 connector.
-  Product connected via wires.
-  Product connected via push-wire terminal.

Other pictograms



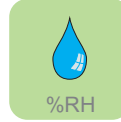
Controller is programmed using CyPro integrated development tool.



Controller is programmed using the C programming language.



Product measures temperature or an external sensor can be connected to the device.



Product measures relative humidity.



Product measures light level or an external light sensor can be connected to the device.



Product is a motion detector or an external detector can be connected to the device.



Product can control lighting systems via Digital Signal Interface (DSI) outputs.



Product can control lighting systems via Digital Addressable Lighting Interface (DALI) outputs.



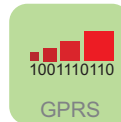
Product connectable via serial communication port.



Product connectable via ethernet communication port.



Product communicates via GSM network.



Product transfers data using General Packet Radio Service (GPRS).



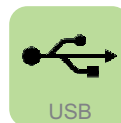
Product is a GPS (Global Positioning System) device.



Product is an infra red transmitter, IR receiver or an external receiver can be connected to the device.



Product has a touch sensitive surface.



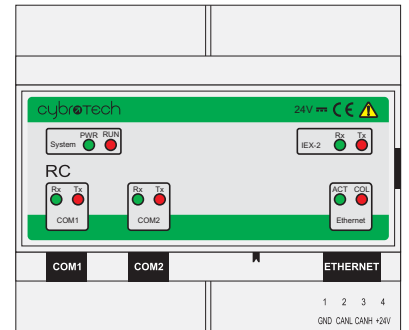
Product connects to PC via Universal Serial Bus.

RC

Intelligent programmable room controller



RC is a programmable intelligent controller. Software application loaded into the controller enables the automation system operation without the support of personal computer. System configuration and application programming is carried out via PC with CyPro development tool installed. Controller communicates with PC via serial (RS-232) line and Ethernet (Ethernet enabled controllers only). Easy connection of communication port via RJ9 (serial) and RJ45 (Ethernet) connectors. LED indicators for controller and communication state. Unit was designed to be used where all I/O requirements are covered by expansion modules. Modules are connected to the unit via two IEX connection ports. A network of intelligent controllers can also be established via A-Bus (RS-485 or over Ethernet). Unit is powered by an external 24V DC power supply.



Technical specifications

Internal memory	64KB FLASH, 64KB RAM, 8KB EEPROM
RTC accuracy	typ. ± 2 sec/day, max. ± 5 sec/day at 25°C
Communication	RS-232, Ethernet, IEX
Connected modules	max. 31
Power supply	20..28V DC
Power consumption	2W
Total power output	24V DC max. 2A (on RJ9 IEX connector)
Operating conditions	0..50°C, 0..85% RH non-condensing
Degree of protection	IP20
Mounting	DIN rail (35mm)
Dimensions	106x93x58mm

Ordering information



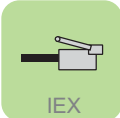

Order Code:
RS232 only
RS232 and Ethernet

RC
RC-E

CyBro-2-24

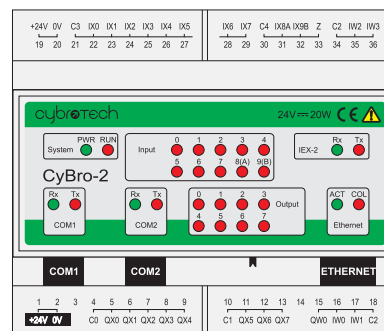
Intelligent programmable controller



 6M	 10x opto 24V	 4x 0..10V 0..20mA	 PROG
 IEX	 8x relay 5A	 1x 0..10V	

Controllers

CyBro-2-24 is a programmable intelligent controller. Software application loaded into the controller enables the automation system operation without the support of personal computer. System configuration and application programming is carried out via PC with CyPro development tool installed. Controller communicates with PC via serial (RS-232) line and Ethernet (Ethernet enabled controllers only). Easy connection of communication port via RJ9 (serial) and RJ45 (Ethernet) connectors. LED indicators for controller and communication state. Controller already includes digital and analog input and output points. Additional expansion modules can be connected to the unit via IEX bus that communicates by using open proprietary protocol (CAN2.0 based). A network of intelligent controllers can also be established via A-Bus (RS-485 or over Ethernet). Unit is powered by an external 24V DC power supply.



Technical specifications

Internal memory	64KB FLASH, 64KB RAM, 8KB EEPROM
RTC accuracy	typ. ±2 sec/day, max. ±5 sec/day at 25°C
HSC input frequency	max. 10kHz (50% duty cycle), single or dual phase
10 digital inputs	24V, typ. 7mA, opto-isolated
8 digital outputs	relay contacts, normally open, SPST
Load	max. 5A/250V AC or 5A/30V DC, resistive
4 analog inputs	0..10V or 0(4)..20mA (2% of FSR at 25°C)
1 analog output	0..10V (2% of FSR at 25°C)
Communication	RS-232, Ethernet, IEX
Connected modules	max. 31
Power supply	20..28V DC
Power consumption	3,5W
Total power output	24V DC max. 2A
Operating conditions	0..50°C, 0..85% RH non-condensing
Degree of protection	IP20
Mounting	DIN rail (35mm)
Dimensions	106x108x58mm

Ordering information

Order Code:
RS232 only
RS232 and Ethernet

CYBRO-2-24
CYBRO-2-24-E

CyBro-2-230

Intelligent programmable controller





6M

10x
opto 24V

4x
0..10V
0..20mA



IEX

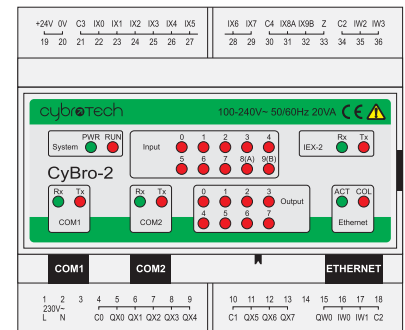
8x
relay 5A

1x
0..10V



PROG

CyBro-2-230 is a high performance, programmable intelligent System configuration and application programming are carried out via PC with the installed CyPro development tool. Controller communicates with PC via serial (RS-232) line and Ethernet (Ethernet enabled controllers only). Easy connection of communication port via RJ9 (serial) and RJ45 (Ethernet) connectors. LED indicators for controller and communication state. Controller already includes digital and analog input and output points. Additional expansion modules can be connected to the unit via IEX bus that communicates by using open proprietary protocol (CAN2.0 based). A network of intelligent controllers can also be established via A-Bus (RS-485 or over Ethernet). Unit is powered directly from the powers mains (110/230V AC).



Technical specifications

Internal memory	64KB FLASH, 64KB RAM, 8KB EEPROM
RTC accuracy	typ. ±2 sec/day, max. ±5 sec/day at 25°C
HSC input frequency	max. 10kHz (50% duty cycle), single or dual phase
10 digital inputs	24V, typ. 7mA, opto-isolated
8 digital outputs	relay contacts, normally open, SPST
Load	max. 5A/250V AC or 5A/30V DC, resistive
4 analog inputs	0..10V or 0(4)..20mA (2% of FSR at 25°C)
1 analog output	0..10V (2% of FSR at 25°C)
Communication	RS-232, Ethernet, IEX
Connected modules	max. 31
Power supply	85..260V AC, 50..60Hz
Power output	24V DC max. 320mA (at 85..260V AC, max. 50°C)
(24V DC Out & IEX)	24V DC max. 500mA (at 230..240V AC, max. 40°C)
Operating conditions	0..50°C, 0..85% RH non-condensing
Degree of protection	IP20
Mounting	DIN rail (35mm)
Dimensions	106x108x58mm

Ordering information

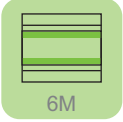

Order Code:
RS232 only
RS232 and Ethernet

CYBRO-2-230
CYBRO-2-230-E

uCyBro-2R

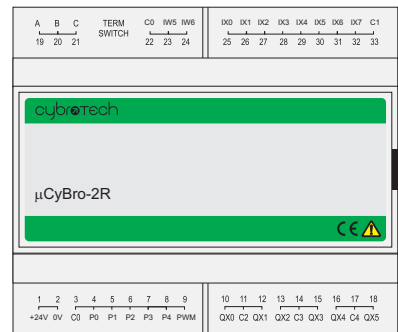
Micro-controller with relay outputs



 6M	 6x opto 24V	 5x/2x pot 10k 0..10V	
 IEX	 6x relay 5A	 1x PWM 24V	

Controllers

uCyBro-2R is a low-cost programmable micro-controller. Software application is programmed into controller by way of in-system-programming (ISP) connector; it enables the automation system to operate without the support of personal computer. Controller already includes digital and analog input and output points. Additional expansion modules can be connected to the unit via IEX bus that communicates by using an open proprietary protocol (CAN2.0 based). A network of intelligent controllers can also be established via A-Bus (RS-485). Hitachi L200 inverter units can be controlled using modubus protocol. Unit is powered by an external 24V DC power supply.



Technical specifications

Internal memory	64KB FLASH, 2KB RAM, 2KB EEPROM
8 digital inputs	24V, typ. 7mA, opto-isolated
6 digital outputs	relay contacts, normally open, SPST
Load	max. 5A/250V AC or 5A/30V DC, resistive
5 analog inputs	potentiometer (10 bit)
2 analog inputs	0..10V (0.1%)
1 PWM output	PNP transistor, 24V, 2A (10 bit)
Communication	RS-485, IEX
Connected modules	max. 3
Power supply	20..28V DC
Power consumption	1.9W
Total power output	24V DC max. 2A
Operating conditions	0..50°C, 0..85% RH non-condensing
Degree of protection	IP20
Mounting	DIN rail (35mm)
Dimensions	106x108x58mm


Ordering information

Order Code: **UCYBRO-2R**

uCyBro-2T

Micro-controller with transistor outputs






6M

6x
opto 24V


5x/2x
pot 10k
0..10V



IEX

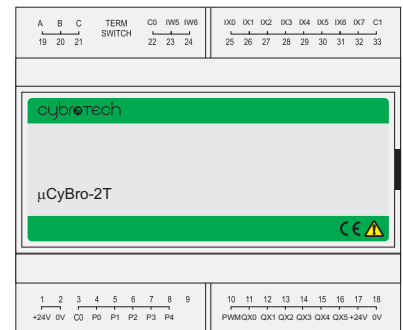
8x
PNP 2A

1x
PWM 24V



C
LANGUAGE
PROG

uCyBro-2T is a low-cost programmable micro-controller. Software application is programmed into controller by way of in-system-programming (ISP) connector; it enables the automation system to operate without the support of personal computer. Controller already includes digital and analog input and output points. Additional expansion modules can be connected to the unit via IEX bus that communicates by using an open proprietary protocol (CAN2.0 based). A network of intelligent controllers can also be established via A-Bus (RS-485). Hitachi L200 inverter units can be controlled using modubus protocol. Unit is powered by an external 24V DC power supply.



Technical specifications

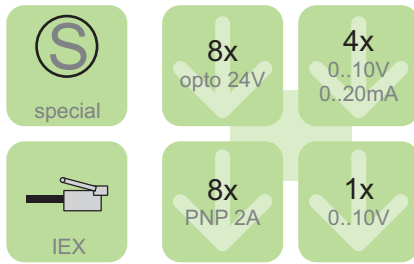
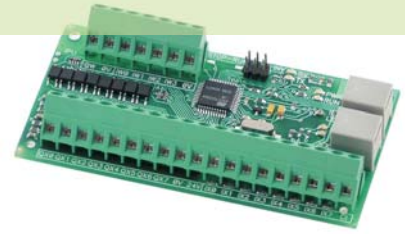
<ul style="list-style-type: none"> Internal memory 8 digital inputs 6 digital outputs 5 analog inputs 2 analog inputs 1 PWM output Communication Connected modules Power supply <li style="padding-left: 20px;">Power consumption <li style="padding-left: 20px;">Total power output Operating conditions Degree of protection Mounting Dimensions 	<ul style="list-style-type: none"> 64KB FLASH, 2KB RAM, 2KB EEPROM 24V, typ. 7mA, opt-isolated PNP transistor, 24V, 2A, opto-isolated potentiometer (10 bit) 0..10V (0.1%) PNP transistor, 24V, 2A (10 bit) RS-485, IEX max. 3 20..28V DC 0.9W 24V DC max. 2A 0..50°C, 0..85% RH non-condensing IP20 DIN rail (35mm) 106x108x58mm
---	--

Ordering information

Order Code: UCYBRO-2T

IPU

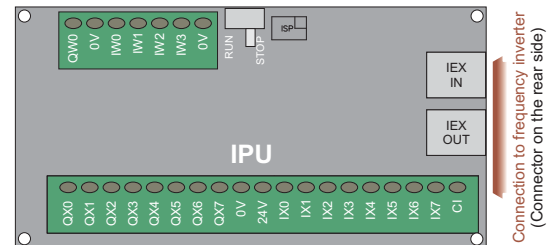
Inverter controller



Provides connection for multiple Hitachi inverters to an IEX bus system. The unit can operate in two modes. In PLC mode, the unit is used as a standalone controller; in IEX mode, the unit responds as a standard I/O expansion module.

In PLC mode, the unit controls a frequency inverter by reading and writing its predefined parameters based on the loaded application. If the IPU is programmed as a module, then it can be connected to the IEX network and the logical control of the inverter is provided completely by an application installed in the CyBro-2 controller. The unit is designed for Hitachi inverters L300P and SJ300. Small dimensions enable the IPU to be mounted inside a frequency inverter.

Powered from frequency inverter.



Technical specifications

Internal memory	64KB FLASH, 2KB RAM, 2KB EEPROM
8 digital inputs	24V, typ. 7mA, opt-isolated
8 digital outputs	PNP transistor, 24V, 2A, opto-isolated
4 analog inputs	0..10V or 0(4)..20mA (2% of FSR at 25°C)
1 analog output	0..10V (2% of FSR at 25°C)
Galvanic isolation	IEX from CPU and main inverter body
Power supply	from frequency inverter
Power consumption	100mA
Operating conditions	0..50°C, 0..85% RH non-condensing
Degree of protection	IP00
Mounting	inside frequency inverters Hitachi L300P and SJ300
Dimensions	104x53x24mm

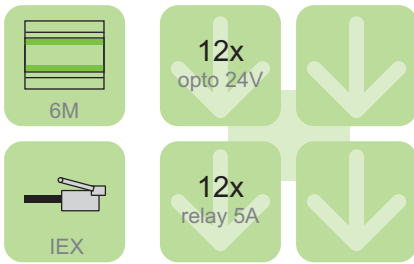
Ordering information

Order Code:
 IPU in IEX mode
 IPU in PLC mode*
 *Contact Cybrotech sales department for information on available custom solutions.

IPU-P00-EM
 IPU-Pxx-EM

Bio-24R

Relay I/O module



Modules

This device is an expansion module with 12 bi-directional inputs and 12 relay outputs.

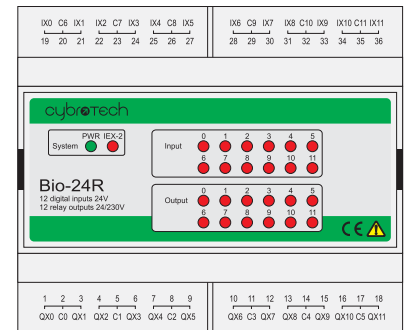
Relay outputs can be used to control mains powered devices such as lights, blinds, shutters and more.

Current state of individual input and output is depicted by LED indicators located on the top foil.

Unit can be easily installed by push-and-click mounting on a DIN rail.

IEX ports located laterally on the housing enable simple networking of multiple CyBro-2 modules.

24V DC powered over IEX bus.



Technical specifications

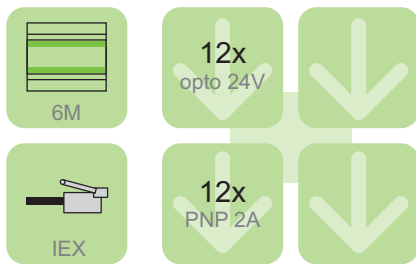
12 digital inputs	24V, typ. 7mA, opto-isolated
12 digital outputs	relay contacts, normally open, SPST
Load	max. 5A/250V AC or 5A/30V DC, resistive
Galvanic isolation	inputs/outputs from internal circuit
Power supply	24V DC (over IEX bus)
Power consumption	160mA (64mA+8mA*number of active relays)
Operating conditions	0..50°C, 0..85% RH non-condensing
Degree of protection	IP20
Mounting	DIN rail (35mm)
Dimensions	106x108x58mm

Ordering information

Order Code: **BIO-24R**

Bio-24T

Transistor I/O module



This device is an expansion module with 12 bi-directional inputs and 12 transistor outputs.

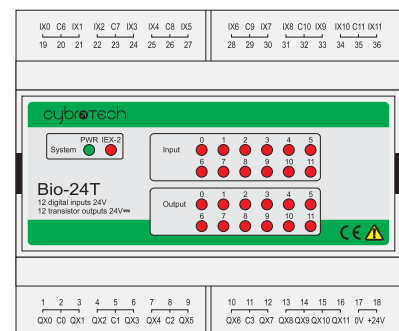
Outputs can be used to control various 24V DC devices or can be connected to electrically controlled relay which in turn can control mains powered devices.

Output transistors are galvanically separated from internal circuit and therefore require an external 24V DC supply to operate.

Current state of individual inputs and outputs is indicated by LED indicators located on the top foil.

Unit can be easily installed by push-and-click mounting on a DIN rail. IEX ports located laterally on the housing enable simple networking of multiple CyBro-2 modules.

24V DC powered over IEX bus.



Technical specifications

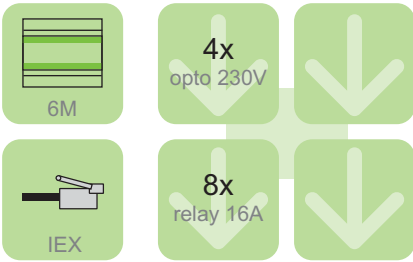
12 digital inputs	24V, typ. 7mA, opto-isolated
12 digital outputs	PNP transistor, 24V, 2A, opto-isolated
Galvanic isolation	inputs/outputs from internal circuit
Power supply	24V DC (over IEX bus)
Power consumption	90mA (64mA+2mA*number of active relays)
Operating conditions	0..50°C, 0..85% RH non-condensing
Degree of protection	IP20
Mounting	DIN rail (35mm)
Dimensions	106x108x58mm

Ordering information

Order Code: **BIO-24T**

Bio-8R4

High-power relay I/O module



This device is an expansion module with 4 voltage-detecting inputs and 8 switching (type L, B24V)/contact (type N) relays; each relay also features additional voltage sensing functionality (L and B24V only). Relays are designed to control devices that consume current up to 16A (resistive loads).

Type N is general-purpose and can be used for ON/OFF control of a wide variety of devices.

Type L device is designed to control high-wattage lights and chains of low-wattage lights or for controlling motors of shutters and blinds.

Type B24V is designed to control 24V blinds and shutters.

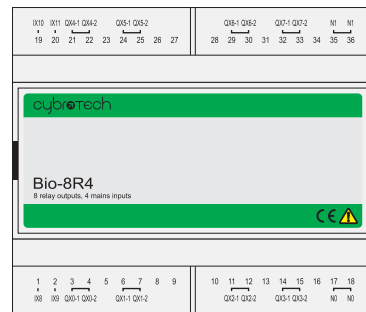
Module is connected to controller via IEX bus.

IEX ports located laterally on the housing enable simple networking of multiple CyBro-2 modules.

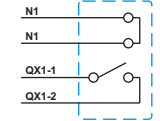
Push-and-click mounting on a DIN rail and removable (detachable) I/O terminals enable simple installation of the unit.

24V DC powered over IEX bus.

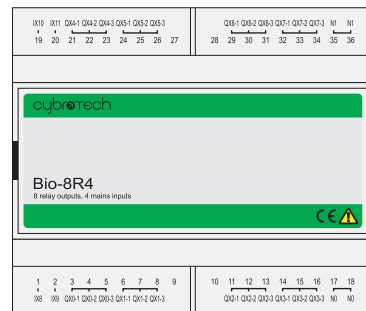
Bio-8R4-N



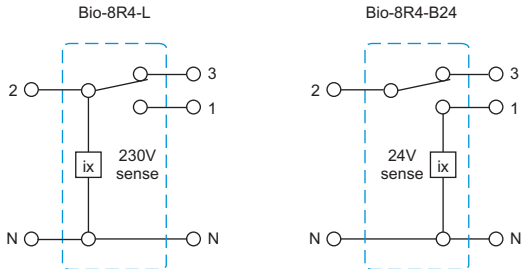
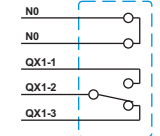
Digital power output



Bio-8R4-L, Bio-8R4-B24V



Digital power output



Technical specifications

4 digital inputs	230V AC, opto-isolated
8 digital outputs	relay contacts
Bio-8R4-N	SPST, max. 16A/250V AC, resistive
Bio-8R4-L, B24V	SPDT, max. 16A/250V AC, resistive
Galvanic isolation	inputs/outputs from internal circuit
Power supply	24V DC (over IEX bus)
Power consumption	150mA (22mA+16mA*number of active relays)
Operating conditions	0..50°C, 0..85% RH non-condensing
Degree of protection	IP20
Mounting	DIN rail (35mm)
Dimensions	106x108x58mm

Ordering information

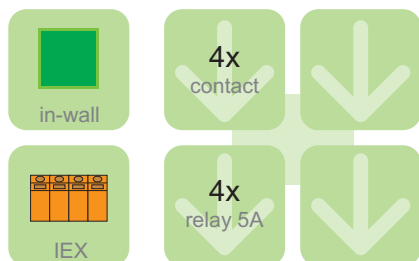
Order Code:
 for general-purpose with 4 sensor inputs (230V AC)
 for light switching with 8+4 sensor inputs (230V AC)
 for 24V blinds switching with 8+4 sensor inputs (24V AC)

BIO-8R4-N
 BIO-8R4-L
 BIO-8R4-B24

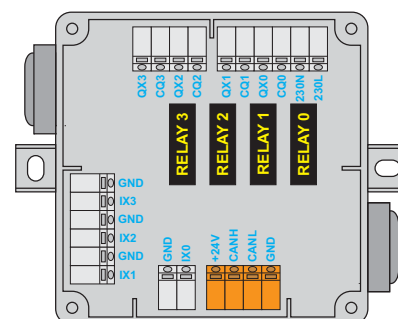
Modules

8C

Relay module



8C is a universal module with 4 digital switch inputs and 4 relay outputs. Output relays can directly switch mains voltage that is connected to terminals 230N and 230L and can be used for controlling lights, blinds... Push-wire connection terminals enable easy connection and disconnection. Device is protected by plastic mounting box and can be installed in double ceiling, double floor, on the wall, or on a DIN rail. 24V DC powered over IEX bus.



Technical specifications

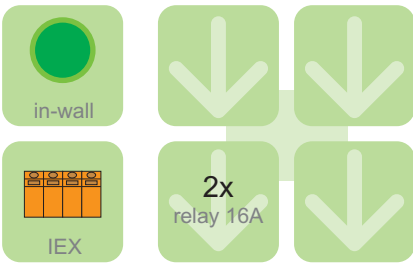
4 digital inputs	common-ground switch with internal pull-up (12V, 1mA)
4 digital outputs	relay contacts, normally open, SPST
Load	max. 5A/250V AC or 5A/30V DC, resistive
Power supply	24V DC (over IEX bus)
Power consumption	100mA (60mA+10mA*number of active relays)
Operating conditions	0..50°C, 0..85% RH non-condensing
Degree of protection	IP42
Mounting	in-wall
Dimensions	108x86x46mm

Ordering information

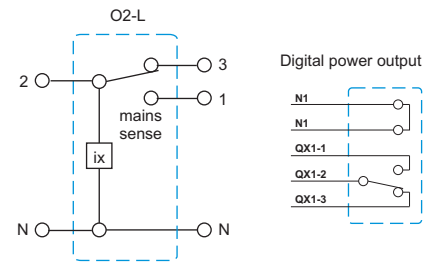
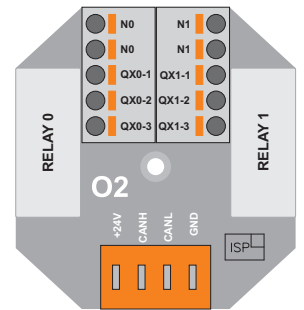
Order Code: **8C-FB**

O2

High-power relay I/O module



O2 module is a compact unit designed for installation in a flush box (fi80). It holds two power relays that can be used for controlling lights or blinds. Every O2 module also has two mains sense inputs that are hardwired to relay output pin 2 (L). When a 230V AC is connected between terminals N and QX-2, bit flag is set. Module enables, with minimum installation redesign, changing existing lighting installation and automating the control. Push-wire connectors ensure easy electrical installation. 24V DC powered over IEX bus.



Technical specifications

2 digital outputs	relay contacts, SPDT
Load	max. 16A/250V AC, resistive
Galvanic isolation	inputs/outputs from internal circuit
Power supply	24V DC (over IEX bus)
Power consumption	85mA
Operating conditions	0..50°C, 0..85% RH non-condensing
Mounting	in-wall, flush box fi80
Dimensions	55x60x20mm

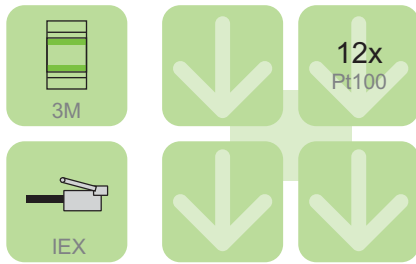
Ordering information

Order Code:
O2-L for switching lights or blinds

O2-L-IW

AiR-12

Resistance input module



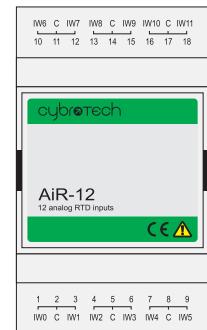
AiR-12 is a module designed to be used as a multiple resistance measuring device. Type of resistance can be selected as standard 0...2000ohm or various thermistor resistance.

Up to 12 temperature measuring thermistors or variable resistance can be connected to the module at any one time.

Accuracy of conversion can be configured according to project requirements. Module is housed in a standard 3M enclosure and can be easily mounted on a DIN rail and connected via removable I/O terminals.

IEX ports are located laterally on the housing to enable simple networking of multiple CyBro-2 modules.

Powered by 24V DC over IEX bus.



Technical specifications

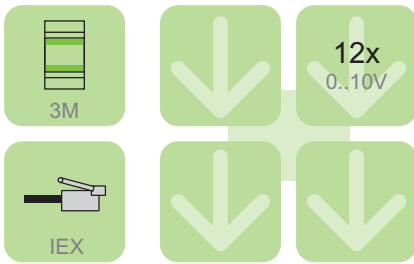
12 analog inputs	resistance
Type	Pt100/1000 (DIN 751), measuring range -100..300°C Ni100/1000 (DIN 43760), measuring range -50..160°C Ni100/1000 (Landis & Gyr), measuring range -50..160°C potentiometer 0..2000ohm
Connection type	2-wire or 3-wire
Wire resistance	max. 20ohm (3-wire mode)
Resolution	14 bits (input modes with 0.1% accuracy) 12 bits (input modes with 0.5%/1% accuracy)
Temperature drift	0.01%/°C of measuring range
Galvanic isolation	between digital and analog circuit no isolation between channels
Power supply	24V DC (over IEX bus)
Power consumption	50mA
Operating conditions	0..50°C, 0..85% RH non-condensing
Degree of protection	IP20
Mounting	DIN rail (35mm)
Dimensions	53x108x58mm

Ordering information

Order Code: **AIR-12**

AiV-12

Voltage input module



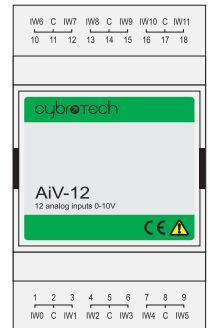
AiV-12 is a module designed to be used when multiple analog voltage signals must be converted to a digital value (e.g. temperature, humidity, pressure, etc.).

The module can measure signals ranging from 0 to 10V.

Up to 12 analog signals can be connected to the module at any one time. Accuracy of conversion can be configured based on project requirements. Module is housed in a standard 3M enclosure and can be easily mounted on a DIN rail and connected via removable I/O terminals.

IEX ports are located laterally on the housing to enable simple networking of multiple CyBro-2 modules.

Powered by 24V DC over IEX bus.



Technical specifications

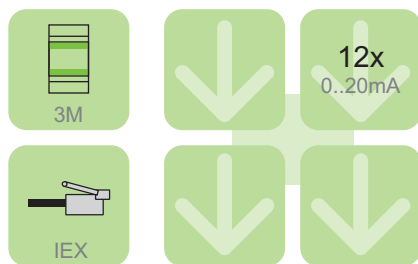
12 analog inputs	0..10V
Resolution	13 bits (input modes with 0.1% accuracy) 11 bits (input modes with 0.5%/1% accuracy)
Temperature drift	0.01%/°C of measuring range
Galvanic isolation	between digital and analog circuit no isolation between channels
Power supply	24V DC (over IEX bus)
Power consumption	50mA
Operating conditions	0..50°C, 0..85% RH non-condensing
Degree of protection	IP20
Mounting	DIN rail (35mm)
Dimensions	53x108x58mm

Ordering information

Order Code: **AIV-12**

AiC-12

Current input module



AiC-12 is a module designed to be used when multiple analog current signals must be converted to a digital value (e.g. temperature, humidity, pressure, etc.).

The module can measure signals ranging from 0 to 20mA.

Up to 12 analog signals can be connected to the module at any one time.

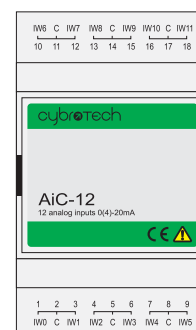
Accuracy of conversion can be configured based on project requirements.

Module is housed in a standard 3M enclosure and can be easily mounted

on a DIN rail and connected via removable I/O terminals.

IEX ports are located laterally on the housing to enable simple networking of multiple CyBro-2 modules.

Powered by 24V DC over IEX bus.



Technical specifications

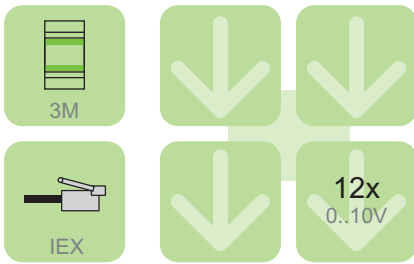
12 analog inputs	0..20mA
Resolution	13 bits (input modes with 0.1% accuracy) 11 bits (input modes with 0.5%/1% accuracy)
Temperature drift	0.01%/°C of measuring range
Galvanic isolation	between digital and analog circuit no isolation between channels
Power supply	24V DC (over IEX bus)
Power consumption	50mA
Operating conditions	0..50°C, 0..85% RH non-condensing
Degree of protection	IP20
Mounting	DIN rail (35mm)
Dimensions	53x108x58mm

Ordering information

Order Code: **AIC-12**

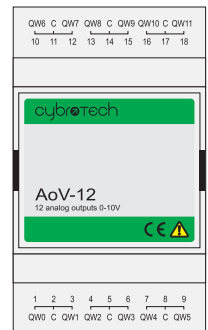
AoV-12

Voltage output module



Modules

AoV-12 is a system control (lighting, valves, motors) module with 12 individually adjustable voltage outputs. 0..10V range can be sourced on the outputs. Accuracy of conversion can be configured based on project requirements. Module is housed in a standard 3M enclosure and can be easily mounted on a DIN rail and connected via removable I/O terminals. IEX ports are located laterally on the housing to enable simple networking of multiple CyBro-2 modules. Powered by 24V DC over IEX bus.



Technical specifications

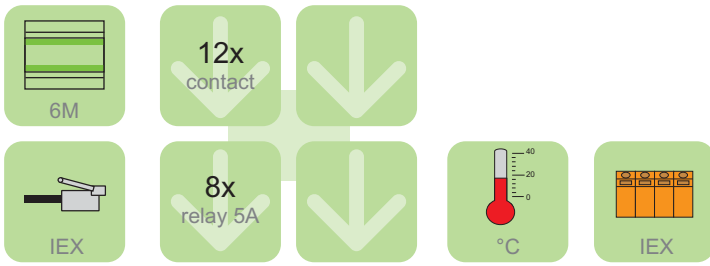
12 analog outputs	0..10V
Output current	max. 10mA per channel max. 70mA for all channels
Resolution	8 bits (with accuracy 1% of FSR)
Temperature drift	0.01%/°C of measuring range
Galvanic isolation	between digital and analog circuit no isolation between channels
Power supply	24V DC (over IEX bus)
Power consumption	150mA (50mA+1.3mA*total output current)
Operating conditions	0..50°C, 0..85% RH non-condensing
Degree of protection	IP20
Mounting	DIN rail (35mm)
Dimensions	53x108x58mm

Ordering information

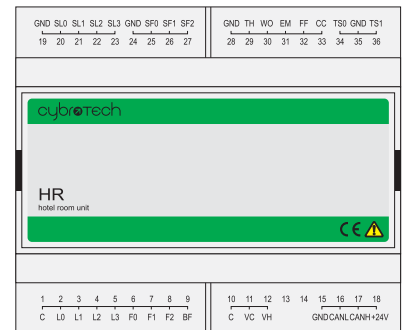
Order Code: **AOV-12**

HR

Hotel room control module



HR is a simple and cost-effective hotel room solution. It maintains heating, cooling, air-circulation, lighting, fire/flood alarm and the emergency button. Digital inputs can be used for switches, buttons or thermostats. Relay outputs can control fan coil units, lights, fans, etc. Unit can be easily installed by push-and-click mounting on a DIN rail. Two external sensors can be connected to measure room temperature. IEX ports on sides of the housing enable simple networking of multiple CyBro-2 modules. If the device is installed out of electrical distribution box then it can be connected to the network via IEX terminal instead of side RJ9 ports.



Technical specifications

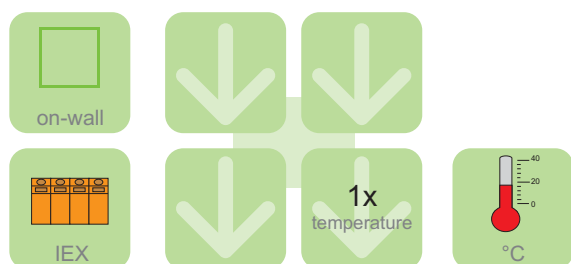
12 digital inputs	common-ground switch with internal pull-up (12V, 1mA)
10 digital outputs	relay contacts, normally open, SPST
Load	max. 5A/250V AC or 5A/30V DC, resistive
2 sensor connectors	Integra-BM external temperature sensor
Power supply	24V DC (over IEX bus)
Power consumption	200mA (50mA+15mA*number of active relays)
Operating conditions	0..50°C, 0..85% RH non-condensing
Degree of protection	IP20
Mounting	DIN rail (35mm)
Dimensions	106x108x58mm

Ordering information

Order Code: **HR**

TS

Temperature sensor module



Room temperature sensors measuring room atmosphere parameters for the purpose of building automation.

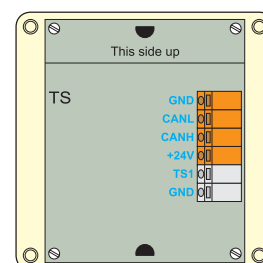
Additional external sensor on wires can be connected to module unit.

Version with added humidity sensor also available.

Push-wire connectors enable easy connecting and disconnecting.

Device is protected by plastic housing and can be installed on the wall.

24V DC powered over IEX bus.



Technical specifications

Temperature measurement	0°C..+50°C
Resolution	0.1°C
Error	typ. $\pm 0.2^\circ\text{C}$ (+15°C to +35°C) max. $\pm 1^\circ\text{C}$ (-10°C to +85°C)
Humidity sensor*	0..100% RH, non-condensing, $\pm 2\%$ RH at 25°C
1 sensor connector	Integra-BM external temperature sensor
Power supply	24V DC (over IEX bus)
Power consumption	15mA
Operating conditions	0..50°C, 0..85% RH non-condensing
Degree of protection	IP30
Mounting	on-wall
Dimensions	71x71x27mm

Ordering information

Order Code:

white housing

white housing and humidity sensor

ivory housing

ivory housing and humidity sensor

different housing colors on request

TS-OW-WHITE

TS-H-OW-WHITE

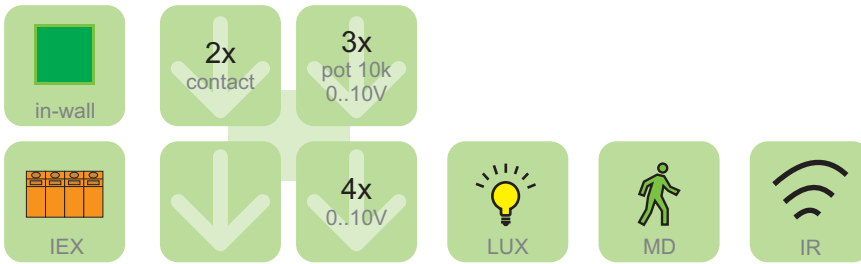
TS-OW-IVORY

TS-H-OW-IVORY

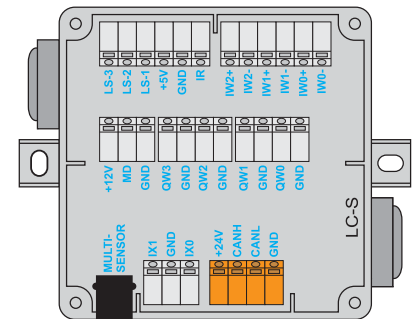
TS-OW-CUSTOM

LC-S

Analog light control module



LC-S is a lighting control module with inputs which are typically used in lighting automation. 0..10V outputs enable dimmable lighting control. Motion detectors and multisensors can be connected to module to provide information about room occupancy and illumination level. Three analog inputs assignable to light-dimming potentiometers. Push-wire connectors enable easy connection and disconnection. Device is protected by plastic mounting box and can be installed in double ceiling, double floor, on the wall or on a DIN rail. 24V DC powered over IEX bus.



Technical specifications

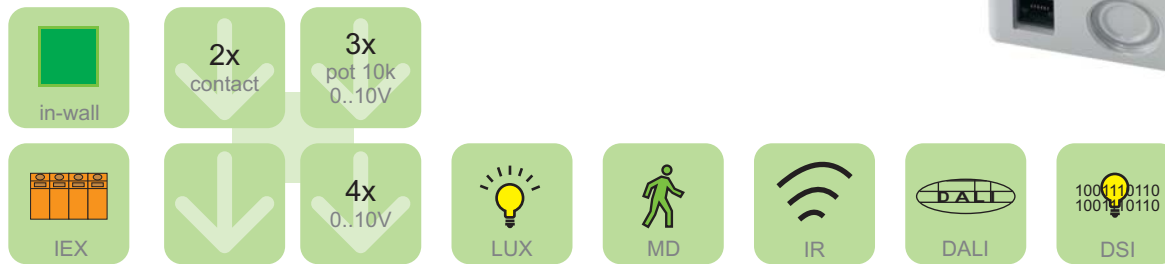
2 digital input	common-ground switch with internal pull-up (12V, 1mA)
3 analog inputs	0..10V (10bit ADC, 0..1023)
Internal pull-up	12V, 2mA
4 analog outputs	0..10V (8bit DAC, 0..255)
Current per channel	max. 10mA
Ballasts per channel	max. 50
All ballasts	max. 100
2 sensor connectors	Integra-BM multisensor
	Multisensor (entry for RJ-12 modular jack)
Power supply	24V DC (over IEX bus)
Power consumption	100mA (40mA - without sensors and ballasts)
Operating conditions	0..50°C, 0..85% RH non-condensing
Degree of protection	IP42
Mounting	in-wall
Dimensions	108x86x46mm

Ordering information

Order Code: **LC-S-FB**

LC-D

DALI light control module



LC-D is a lighting control module with inputs which are typically used in lighting automation.

DALI and DSI outputs are digital lighting control standards that enable complex lighting control with pre-programmed schedules, group light control, and much more.

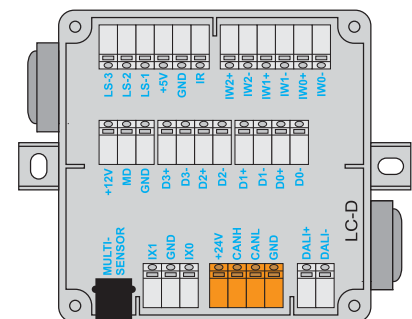
Motion detectors and multisensors can be connected to the module to provide the system with information on room occupancy and illumination level.

Three analog inputs assignable to light-dimming potentiometers.

Push-wire connectors enable easy connection and disconnection.

Device is protected by plastic mounting box and can be installed in double ceiling, double floor, on the wall or on a DIN rail.

24V DC powered over IEX bus.



Technical specifications

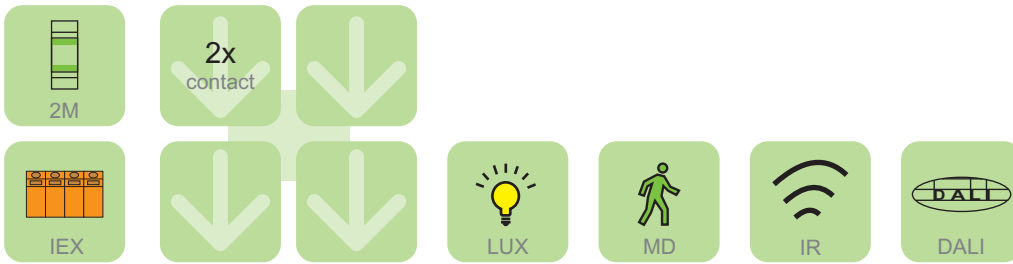
2 digital input	common-ground switch with internal pull-up (12V, 1mA)
3 analog inputs	0..10V (10bit ADC, 0..1023)
Internal pull-up	12V, 2mA
1 DALI output	max. 32 ballasts
Output current	max. 100mA
4 DSI outputs	max. 100 (per channel)
Total output current	max. 250mA
2 sensor connectors	Integra-BM multisensor
	Multisensor (entry for RJ-12 modular jack)
Power supply	24V DC (over IEX bus)
Power consumption	160mA (40mA - without sensors and ballasts)
Operating conditions	0..50°C, 0..85% RH non-condensing
Degree of protection	IP42
Mounting	in-wall
Dimensions	108x86x46mm

Ordering information

Order Code: **LC-D-FB**

LC-DC

DALI light control module



Modules

LC-D is a lighting control module with inputs which are typically used in lighting automation. DALI outputs are digital lighting control standards that enable complex lighting control with pre-programmed schedules, group light control, and much more. Motion detectors and multisensors can be connected to the module to provide the system with information on room occupancy and illumination level. RJ connectors enable easy connection and disconnection. Device is installed in a standard 2M housing and can be mounted on a DIN rail. 24V DC powered over IEX bus.



Technical specifications

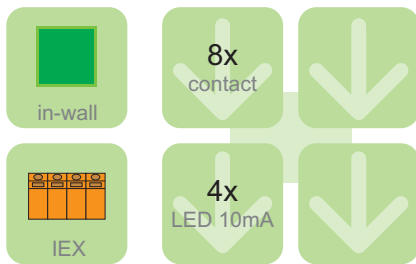
2 digital input	common-ground switch with internal pull-up (12V, 1mA)
1 DALI output	max. 64 ballasts
Output current	max. 100mA
1 sensor connector	Multisensor (entry for RJ-12 modular jack)
Power supply	24V DC (over IEX bus)
Power consumption	140mA (40mA - without sensors and ballasts)
Operating conditions	0..50°C, 0..85% RH non-condensing
Degree of protection	IP20
Mounting	DIN rail (35mm)
Dimensions	36x99x58mm

Ordering information

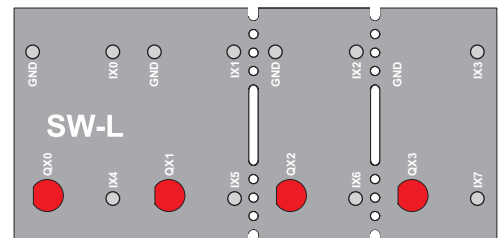
Order Code: **LC-DC**

SW-L

Switch module



Switch module is used for detecting key/switch press. It is specially designed for Legrand, BTicino and TEM switches. Electrical installation of switches of these brands is very easy as no wires are required between the module and the switch. All connections are made by pins soldered directly on the board. SW-L holds 4 LED diodes that are application programmable and can be used to indicate the key or system state. A maximum of 4 switches can be connected to the board. If less are required (minimum of 2), then excess inputs can be removed by breaking of a part of the board.



(Connector on rear side)



Technical specifications

- 8 digital inputs
- 4 digital outputs
- LED illumination
- Power supply
- Power consumption
- Operating conditions
- Mounting
- Dimensions

- common-ground switch with internal pull-up (12V, 2.5mA)
- 3mm red LED diodes
- 24V DC (over IEX bus)
- 70mA
- 0..50°C, 0..85% RH non-condensing
- in-wall, flush box
- 89x44x38mm

Ordering information

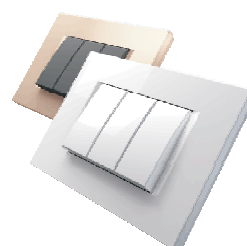
Order code:

- module with red LEDs
- different LED colors on request
- embedded switch

- SW-L-EM
- SW-L-EM-CUSTOM
- SW-L-EM-KIT

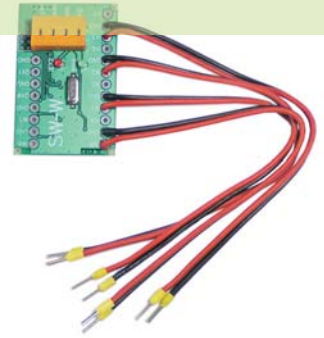
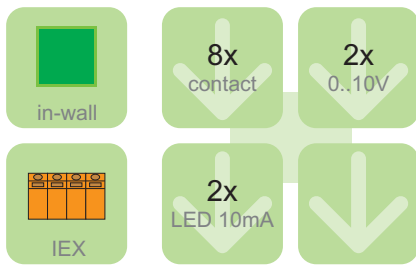
For KIT option consult Cybrotech team to define:

- buttons (black or white, without or with light indication window)
- cover plates (Polar White, Ivory White, Impulse Blue, Mint Green, Elox Silver, Sand Gold or Night Black)
- mounting frames
- flush boxes

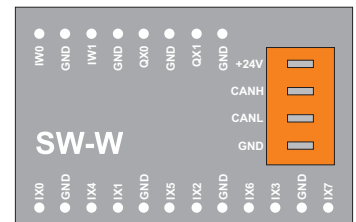


SW-W

Switch module



Switch module is used for detecting key/switch press. It can be used for in automation of lights, blinds etc.
Unlike the SW-L module, this product uses wires and can therefore be used with any type and brand of switches.
2 LED diodes can be connected to the board and freely controlled by application.
Two analog inputs are also available on the device and can be used to connect potentiometers for dimming control.
Module is installed in a flush box with the switches.
Unit is powered with 24V DC over IEX bus.



Technical specifications

8 digital inputs	common-ground switch with internal pull-up (12V, 2.5mA)
2 digital outputs	
LED illumination	for connecting 2 LED diodes
2 analog inputs	0..10V (10bit ADC, 0..1023)
Internal pull-up	12V, 2mA
Power supply	24V DC (over IEX bus)
Power consumption	50mA
Wires length	20cm, factory default (max. 2m)
Operating conditions	0..50°C, 0..85% RH non-condensing
Mounting	in-wall, flush box
Dimensions	60x40x12mm

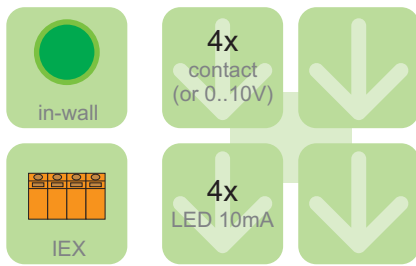
Ordering information

Order Code:
with wires for 4 switches
with additional wires

SW-W-EM
SW-W-EM-CUSTOM

SW-W2

Switch module



Very small design of this switch module makes it perfect for installation in places where space is an issue.

Inputs are analog/digital which means that any type of switch or key, or a potentiometer, can be connected if analog value change is required.

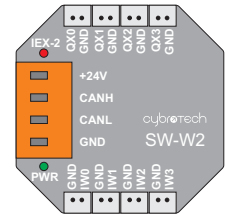
LED diodes can be connected to the outputs. Illumination level of LEDs can be controlled by the application in the controller.

IEX terminal is a push-wire type enabling fast and easy module connection.

Inputs and outputs can be connected with wires attached to a removable connector.

The module is very thin and can fit easily into a round flush box fi60.

Powered by 24V DC over IEX bus.



Technical specifications

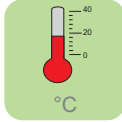
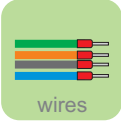
4 Analog/digital inputs	for connecting 4 keys
Analog range	0..10V (10 bit ADC, 0..1023)
Internal pull-up	12V, 2mA
4 digital outputs	
LED illumination	for connecting 4 LED diodes
Power supply	24V DC (over IEX bus)
Power consumption	70mA (30mA +10mA * number of active LED)
Wires length	15cm
Operating conditions	0..50°C, 0..85% RH non-condensing
Mounting	in-wall, flush box fi60
Dimensions	50x50x15mm

Ordering information

Order Code: **SW-W2-IW**

ES

External temperature sensor



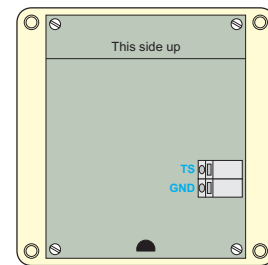
External temperature sensors can be connected to automation system through TS, FC or HR units.

Sensors offer precise temperature measurement.

Three models are available for purchase:

- * ES (on wires)
- * ES-W (in housing)
- * ES-1M (in light switch housing)

ES-W



ES



Technical specifications

Mounting distance	max. 3m
ES-W	
Measuring error	typ. $\pm 0.2^{\circ}\text{C}$, max. $\pm 0.5^{\circ}\text{C}$, max. $\pm 0.5^{\circ}\text{C}$ ($-10^{\circ}\text{C} \dots +85^{\circ}\text{C}$)
Operating temperature	$-55^{\circ}\text{C} \dots +85^{\circ}\text{C}$
Degree of protection	IP20
Mounting	on-wall
Dimensions	71x71x27mm
ES-W	
Measuring error	typ. $\pm 0.2^{\circ}\text{C}$ ($-10^{\circ}\text{C} \dots +85^{\circ}\text{C}$), max. $\pm 2^{\circ}\text{C}$ ($-55^{\circ}\text{C} \dots +125^{\circ}\text{C}$)
Operating temperature	$-55^{\circ}\text{C} \dots +125^{\circ}\text{C}$
Mounting	special
Dimensions	sensor $\varnothing 5.3\text{mm}$

Ordering information

Order Code:

ES (on wire)

ES-W

* white housing

* ivory housing

* different color on request

ES-1M (in light switch housing)

ES

ES-W-OW-WHITE

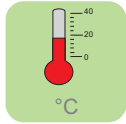
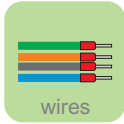
ES-W-OW-IVORY

ES-W-OW-CUSTOM

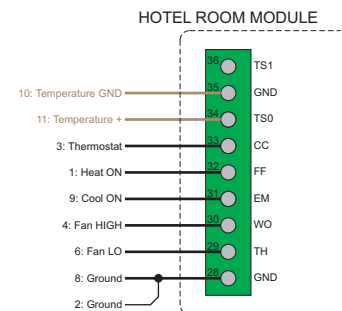
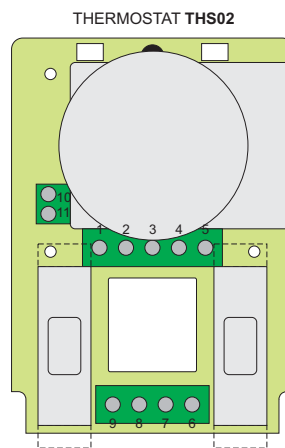
ES-1M-IW

THS02

Room thermostat



Mechanical room thermostat that can be installed in every room and can be used to control heating and cooling. The unit can control fan speeds. Integrated digital sensor can be used to accurately measure room temperature. Module can be easily connected to HR module.



Technical specifications

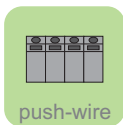
Switches	
Control	HEAT-OFF-COOL
Speed	LOW-MED-HIGH
Thermostat	10..30°C
Setting precision	±0.8°C (at 20°C)
Digital temperature measurement	±0.2°C
Operating conditions	0..50°C, 0..85% RH non-condensing
Degree of protection	IP20
Mounting	on-wall
Dimensions	86x86x32mm

Ordering information

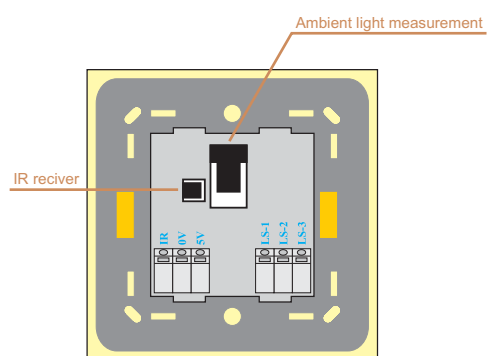
Order Code: **THS02-OW**

MS

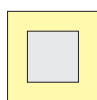
Multisensor



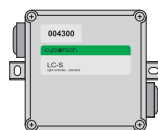
Multisensor can be easily connected to automation system through LC-S or LC-D modules. The device is fitted with an illumination sensor that can sense current illumination in the room; this information can then be used to adjust the illumination to the desired levels. IR receiver detects commands from a remote control unit, enabling the user to control the automation system parameters while comfortably seated on a sofa. Integrated beeper is used for feedback information on system state or successful IR command reception. Sensor is mounted on the ceiling.



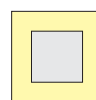
MS



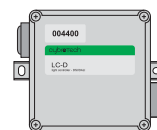
LC-S



MS



LC-D



Technical specifications

Light measurement	
Power supply	12..24V DC
Power consumption	max. 25mA
Operating range	0..2000lux
Directivity	60° (-10dB) MS-O-IW 160° (-10dB) MS-I-IW
Output range	1..10V or 4..20mA
IR receiver	
Power supply	5V DC
Output current	max. 3mA
Carrier frequency	36kHz
Operating conditions	0..50°C, 0..85% RH non-condensing
Degree of protection	IP20
Mounting	on-ceiling, flush box fi60
Dimensions	80x80x35mm

Ordering information

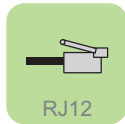
Order Code:

MS-O for outdoor light measurement
MS-I for indoor light measurement

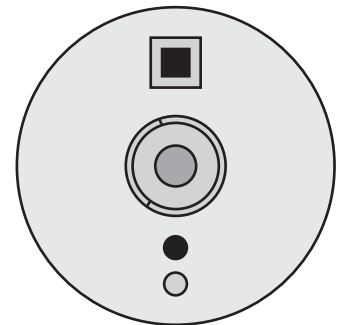
MS-O-IW
MS-I-IW

LRI8134

Multisensor



Compact multi-sensor combining advanced internal light sensor, motion detector and infra-red receiver. The motion detector can be partly shaded to limit coverage. The sensor is suitable for both recessed and surface mounting. Mounting height is between 2.5m and 3.5m. Module can be easily connected to LC-D or LC-S module. DIP switches on the unit can be used to enable/disable sensor elements. LED indicators that can be used to check infrared communication and motion detection (can be enabled/disabled with DIP switches).

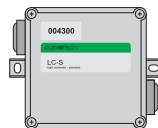


Sensors

LRI8134



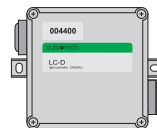
LC-S



LRI8134



LC-D



LRI8134



LC-DC



Technical specifications

IR output	RC5
Light sensor	0..10V , Ro=1kΩ
Motion detector	open collector output; active LOW state
Power supply	11..24V DC (powered from connected module)
Power consumption	10mA
Operating conditions	5..50°C, 20..85% RH non-condensing
Degree of protection	IP20
Mounting	flush box fi60
Dimensions	72x26x64mm

Ordering information

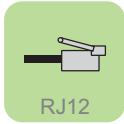
Order Code: **LRI8134-IW**

LRM8114

Motion sensor



on-ceiling



RJ12



MD



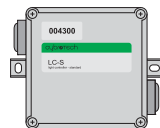
Compact-design highly sensitive motion sensor. Motion detector can be partly shaded to limit coverage. The sensor is suitable for both recessed and surface mounting. Mounting height is between 2.5m and 3.5m. Module can be easily connected to LC-D or LC-S module. DIP switches on the unit can be used to enable/disable sensor elements. LED indicators that can be used to check motion detection (can be enabled/disabled with DIP switches).



LRI8114



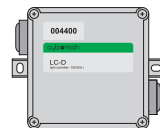
LC-S



LRI8114



LC-D



LRI8114



LC-DC



Technical specifications

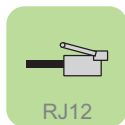
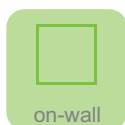
Motion detector	open collector output; active LOW state
Power supply	11..24V DC (powered from connected module)
Power consumption	10mA
Operating conditions	5..50°C, 20..85% RH non-condensing
Degree of protection	IP20
Mounting	flush box fi60
Dimensions	72x26x64mm

Ordering information

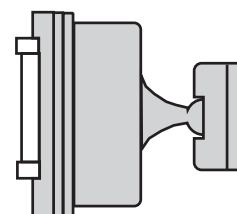
Order Code: **LRM8144-IW**

LRM8115

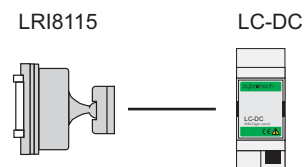
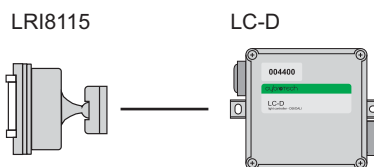
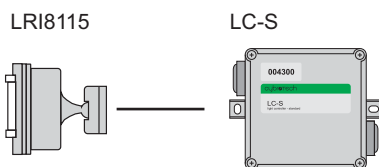
Motion sensor



Compact-design highly sensitive motion sensor. Depending on the requirements, different type of coverage area sensors can be selected. Each sensor can provide long-range, wide-range, or aisle coverage. Sensors contain a built-in daytime override functionality that can be used to disable the output signal when adequate daylight is present in the room. Sensors can be installed directly on the wall and easily connected to a LC-D or LC-S module. DIP switches on the unit can be used to enable/disable sensor elements. LED indicators that can be used to check motion detection (can be enabled/disabled with DIP switches).



Sensors



Technical specifications

Motion detector	open collector output; active LOW state
Detection pattern	
LRM8115	long range, narrow angle corridor pattern
LRM8116	90° wide angle, 22 beams in 4 detection layers
LRM8117	90° wide angle, 9 beams in 1 detection layer
Power supply	11..24V DC (powered from connected module)
Power consumption	10mA
Operating conditions	5..50°C, 20..85% RH non-condensing
Degree of protection	IP20
Mounting	on-wall
Dimensions	70x66x73mm

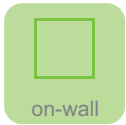
Ordering information

Order Code:
 long range, surface mount
 wide area, surface mount
 aisle applications, surface mount

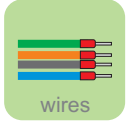
LRM8115-OW
 LRM8116-OW
 LRM8117-OW

CAD-POTI

Electronic potentiometer



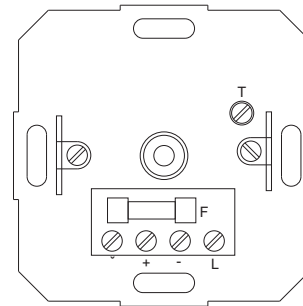
on-wall



wires



Potentiometer can be used for dimming lights and switching on/off devices with push-button switch.
Unit is connected to CyBro-2 system through analog input (with internal pull-up) on OP-3, LC-S, LC-D, RGB-D or SW-W.
Switch is connected to digital input.



Point	Description
↓	Switch connection
L	Switch connection
+	Potentiometer connection
-	Potentiometer connection
F	Fuse
T	Brightness adjustment

Technical specifications

Potentiometer

Control voltage	0.7 ..10V DC
Current	max. 50mA

Switch

Load	max. 6A, 230V AC
------	------------------

Operating conditions 0..50°C, 0..85% RH non-condensing

Degree of protection IP20

Mounting on-wall, flush box fi60

Dimensions 80x80x45mm

Ordering information

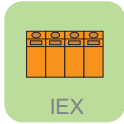
Order Code: CAD-POTI

OP-1

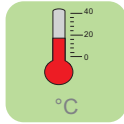
IEX operator panel



in-wall



IEX



°C



IR

Two line, 16 character display designed as a human-machine interface.

Panel can display various system messages, states and parameter values, all programmable with an intelligent controller unit.

LED backlight can be adjusted to various levels to make the display comfortable and easy to read.

5 keys can be used to navigate pre-programmed menus and to set system parameters.

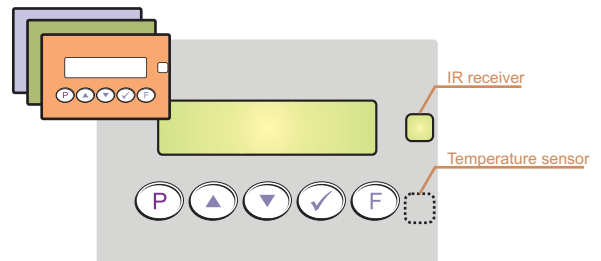
Integrated temperature sensor can be used to control room temperature for HVAC systems, thus eliminating the need for additional sensing devices.

IR receiver enables the use of a remote control which further advances the comfort offered by the automation system.

Integrated beeper can be used to communicate simple messages to the user (e.g. successfully received IR command).

Panel is powered by 24V DC over IEX bus.

Custom front foils



(Connector on rear side)



Technical specifications

Display	LCD, 2x16 characters
Backlight	green LED, software adjustable 0..100%
Number of keys	5
Beeper	duration and on/off software adjustable
IR receiver	receiving distance max. 5m
Power supply	24V DC (over IEX bus)
Power consumption	50mA
Operating conditions	0..50°C, 0..85% RH non-condensing
Degree of protection	IP44
Mounting	in-wall, flush box (120x58x49mm)
Dimensions	140x80x48mm

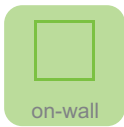
Ordering information

Order Code:
standard front foil
custom front foil on request

OP-1-IW
OP-1-IW-CUSTOM

OP-2

IEX operator panel



on-wall



IEX



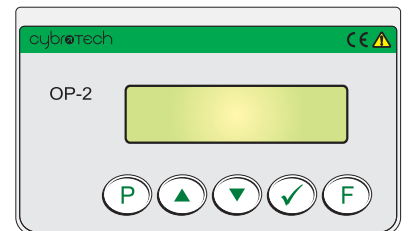
Two line, 16 character display designed as a human-machine interface.

Panel can display various system messages, states and parameter values, all programmable with an intelligent controller unit.

LED backlight can be adjusted to various levels to make the display comfortable and easy to read.

5 keys can be used to navigate pre-programmed menus and to set system parameters.

Panel is powered by 24V DC over IEX bus.



(Connector on rear side)

Technical specifications

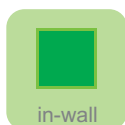
Display	LCD, 2x16 characters
Backlight	green LED, software adjustable 0..100%
Number of keys	5
Power supply	24V DC (over IEX bus)
Power consumption	40mA
Operating conditions	0..50°C, 0..85% RH non-condensing
Degree of protection	IP54
Mounting	panel, on-wall
Dimensions	106x63x24mm

Ordering information

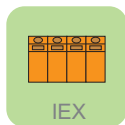
Order Code: **OP-2-CT**

OP-3

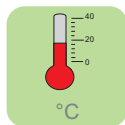
IEX operator panel



in-wall



IEX



°C



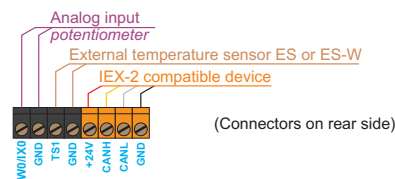
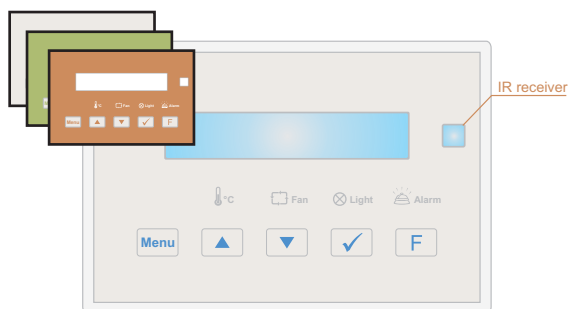
%RH



IR

Two line, 20 character display designed as a human-machine interface. Panel can display various system messages, states and parameter values, all programmable with an intelligent controller unit. LED backlight can be adjusted to various levels to make the display comfortable and easy to read. 5 keys can be used to navigate pre-programmed menus and to set system parameters. 4 LED indicators can be used to display various system information. Integrated temperature and humidity sensor can be used for room environment control. Additional temperature sensors and potentiometers can be connected to the device. Panel is powered by 24V DC over IEX bus.

Custom front foils



Technical specifications

Display	LCD, 2x20 characters
Backlight	blue LED, software adjustable 0..100%
Number of keys	5
4 LED outputs	LED diodes
1 analog input	0..10V (10bit ADC, 0..1023)
Internal pull-up	12V, 2mA
Temperature sensor	0°C..+50°C, ±2°C, 0.1°C
Humidity sensor	0..100% RH, non-condensing, ±2% RH at 25°C
Beeper	duration and on/off software adjustable
IR receiver	receiving distance max. 5m
Power supply	24V DC (over IEX bus)
Power consumption	50mA
Operating conditions	0..50°C, 0..85% RH non-condensing
Degree of protection	IP20
Mounting	in-wall, flush box fi60
Dimensions	120x80x49mm

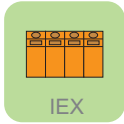
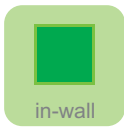
Ordering information

Order Code:
temperature
temperature and humidity
custom front foils on request

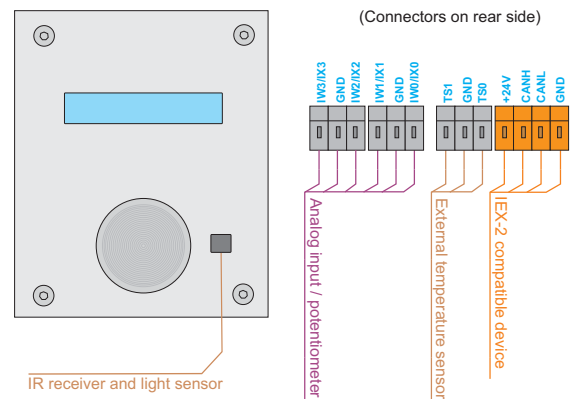
OP-3-T-IW
OP-3-TH-IW
OP-3-IW-CUSTOM

OP-4

IEX operator panel



Two line, 20 character display designed as a human-machine interface in hotel rooms or homes. Panel can display various system messages, states and parameter values, all programmable with an intelligent controller unit. LED backlight can be adjusted to various levels to make the display comfortable and easy to read. Encoder key can be used to navigate pre-programmed menus and to set system parameters. IR receiver enables the use of a remote control which increases the comfort the automation system offers. Additional temperature sensors and potentiometers can be connected to the device. Integrated beeper can be used to communicate simple messages to the user (e.g. successfully received IR command). Panel is powered by 24V DC over IEX bus.



Technical specifications

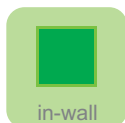
Display	LCD, 2x20 characters
Backlight	blue LED, software adjustable 0..100%
Number of keys	1 encoder
4 analog input	0..10V (10bit ADC, 0..1023)
Internal pull-up	12V, 2mA
1 light sensor	8 bit
2 sensor connectors	Integra-BM external temperature sensor
Beeper	duration and on/off software adjustable
IR receiver	receiving distance max. 5m
Power supply	24V DC (over IEX bus)
Power consumption	50mA
Operating conditions	0..50°C, 0..85% RH non-condensing
Degree of protection	IP20
Mounting	on-wall
Dimensions	142x115x25mm

Ordering information

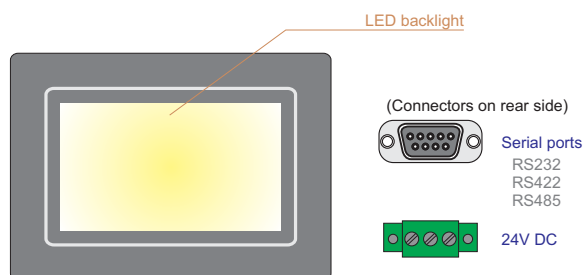
Order Code: **OP-4-OW**

OPT04/05

Color touch screen operator panel



Panels connect to CyBro-2 controllers via serial communication.
Product range offers units with various dimensions, display colors and available memory.
Every panel uses resistive touch detection technology, enabling creation of advanced human-machine interfaces.
Panels are powered by external 24V DC power supply.



Technical specifications

	OPTW04	OPTW05
Display	TFT, 256 colors	TFT, 256 colors
Resolution	480x272	320x234
Active display area	4.3", 97x55mm	5.6", 115x82mm
Touch screen	4 wires resistive	4 wires resistive
User memory	2MB	2MB
Interfaces		
Serial ports	1x	1x
Power supply	12..28V DC	24V DC
Power consumption	150mA at 24V DC	250mA at 24V DC
Operating conditions	0°C..+45°C, 10..90% RH non-condensing	
Degree of protection	IP65 (front panel)	
Mounting	panel / in-wall	panel / in-wall
Dimensions	128x102x38mm	204x150x48mm

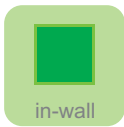
Ordering information

Order Code:
OPT04
OPT04 with mounting kit
OPT05
OPT05 with mounting kit

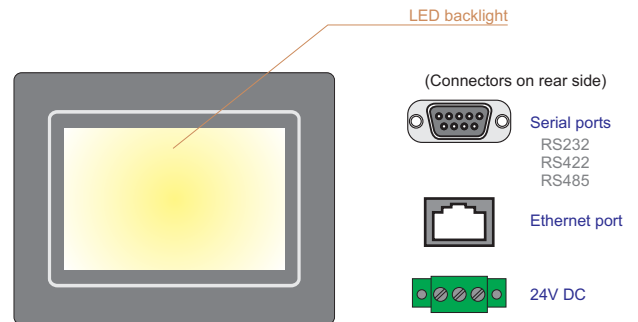
OPTW04-CT
OPTW04-IW
OPTW05-CT
OPTW05-IW

OPT05E/08E

Color touch screen operator panel



Panels connect to CyBro-2 controllers via serial or Ethernet communication. Product range offers units with various dimensions, display colors and available memory. Every panel uses resistive touch detection technology, enabling creation of advanced human-machine interfaces. Panels are powered by external 24V DC power supply.



Technical specifications

	OPT05E	OPT08E
Display	TFT, 65536 colors	TFT, 65536 colors
Resolution	320x234	640x480
Active display area	5.6", 115x82mm	8", 162x120mm
Touch screen	4 wires resistive	4 wires resistive
User memory	32MB	32MB
Interfaces		
Serial ports	3x	3x
Ethernet	1x	1x
USB	2x	3x
Power supply	24V DC	24V DC
Power consumption	220mA	440mA
Operating conditions	0°C..+45°C, 10..90% RH non-condensing	
Degree of protection	IP65 (front panel)	IP65 (front panel)
Mounting	panel / in-wall	panel / in-wall
Dimensions	204x150x48mm	240x179x50mm

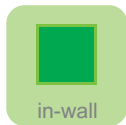
Ordering information

Order Code:
OPT05E
OPT05E with mounting kit
OPT08E
OPT08E with mounting kit

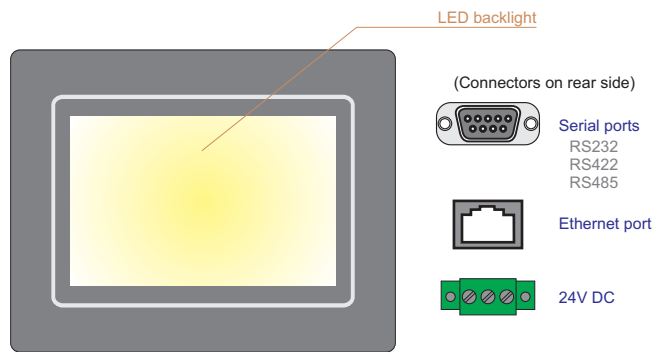
OPTW05E-CT
OPTW05E-IW
OPTW08E-CT
OPTW08E-IW

OPT10E/12E

Color touch screen operator panel



Panels connect to CyBro-2 controllers via serial and Ethernet communication.
 Product range offers units with various dimensions, display colors and available memory.
 Every panel uses resistive touch detection technology, enabling creation of advanced human-machine interfaces.
 Panels are powered by external 24V DC power supply.



Technical specifications

	OPT10E	OPT12E
Display	TFT, 65536 colors	TFT, 65536 colors
Resolution	640x480	800x600
Active display area	10.4", 211x159mm	12.1", 245x182mm
Touch screen	4 wires resistive	4 wires resistive
User memory	32MB	32MB
Interfaces		
Serial ports	3x	3x
Ethernet	1x	1x
USB	3x	3x
Power supply	24V DC	24V DC
Power consumption	440mA	500mA
Operating conditions	0°C..+45°C, 10..90% RH non-condensing	
Degree of protection	IP65 (front panel)	IP65 (front panel)
Mounting	panel / in-wall	panel / in-wall
Dimensions	286x212x50mm	323x243x51mm

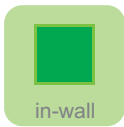
Ordering information

Order Code:
 OPT10E
 OPT10E with mounting kit
 OPT12E
 OPT12E with mounting kit

OPTW10E-CT
 OPTW10E-IW
 OPTW12E-CT
 OPTW12E-IW

WS-12

PC workstation



in-wall



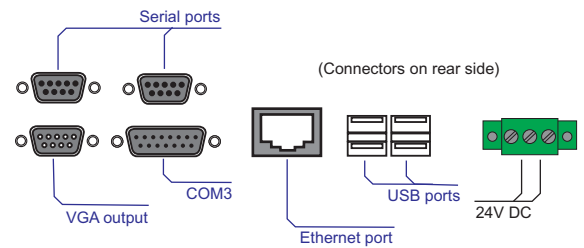
ETH



TOUCH



This product is an embedded computer with a 12.1" color screen and touch sensitive surface. Primarily designed as a human-machine interface in building automation. Touch surface enables interaction between user and building automation system. The computer offers a wide range of connectivity options ranging from serial communication ports to USB and Ethernet ports. Front frame finish can be customized to blend with any building interior design. Product is powered by external 24V DC power supply.



Technical specifications

Display	LCD TFT, 16M colors
Resolution	800x600
Active display area	12.1", 246x184.5mm
Touch screen	5 wires resistive
CPU	800MHz, 512KB cache
System memory	max. 512MB
Interfaces	
Serial ports	3x
Ethernet	1x
USB	4x
Power supply	18..36V
Power consumption	max. 3A
Operating conditions	0°C..+35°C, 10..80% RH non-condensing
Degree of protection	IP20
Mounting	in-wall, flush box
Dimensions	356x294x75mm

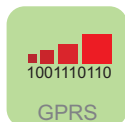
Ordering information

Order Code:
without operating system

WS-12-IW

GSM-ETH-RT

GPRS router



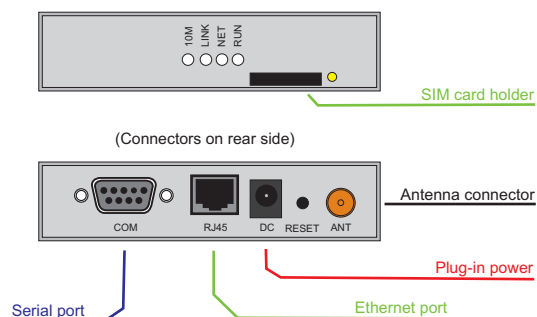
GPRS-ETH-RT is a mobile router capable of connecting remote devices or networks over GPRS/EDGE.

Typical applications:

- * direct connection
- * center to multipoint
- * ethernet / mobile routing
- * serial port / ethernet converter
- * serial port / mobile network transmission

Easy-to-use WEB/Telnet configuration interface for setup and maintenance of device.

Wide input voltage range (8..26V DC) enables direct powering from CyBro-2 systems.



Technical specifications

Features

- Dual frequency
- Mobile router

Configuration

- SIM card
- Data interface
- Power supply
- Power consumption

Operating conditions

- Degree of protection
- Mounting
- Dimensions

- GPRS/EDGE or CDMA 1x network
- built-in DHCP server
- firewall and NAT
- WEB/Telnet or RS232
- 3V
- RS-232, Ethernet
- 8..26V DC
- 300mA at +8V DC (stand by)
- 450mA @ +8VDC (max)
- 10..60°C, 10..90% RH non-condensing
- IP20
- special
- 98x100x23mm

Ordering information

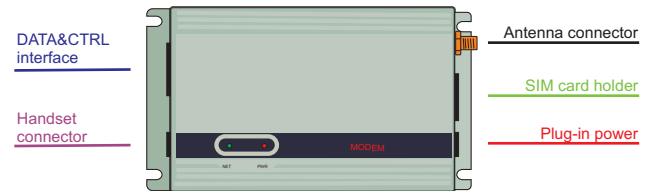
Order Code: **GSM-ETH-RT**

GSM-T02

GSM modem



GSM modem is used for remote control of automation system. User can receive SMS messages with system information or send SMS messages with keyword commands. Supports quad-band GSM850/EGSM900/DCS1800/PCS1900 to comply with various GSM frequency standards worldwide. Easy to integrate with extended AT command set for communication with controller. Wide input voltage range (6..30V DC) enables direct powering from CyBro-2 systems.



Technical specifications

Features	
Quad band	GSM850/EGSM900/DCS1800/PCS1900
Performance	class4(2W) for EGSM900 class1(1W) for DCS1800/PCS1900
Control	AT commands
SIM card	3V or 1.8V
Data interface	RS-232
Power supply	6..30V DC
Power consumption	3mA (stand by) 260mA (active)
Operating conditions	0..50°C, 10..80% RH non-condensing
Degree of protection	IP20
Mounting	special
Dimensions	140x93x66mm

Ordering information

Order Code: **GSM-T02-FB**

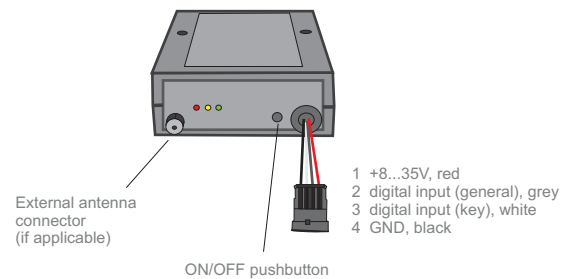
CAD-GSM01-P2 cable for connection to controller included.

TD-101

GPS/GPRS tracking module



TD-101 is Tri-band GSM/GPRS device intended to send location information via GPRS/TCP. Positions are acquired from satellites via GPS part of the device.
 Mounting location is inside the vehicle, under the dashboard, together with external GPS antenna when used.
 The device is powered by car battery and embedded Lithium-ion battery.
 Current position is not sampled if the engine is off and the vehicle is not moving.



Technical specifications

Features	
Tri band	GSM900/DCS1800/PCS1900
Performance	class4(2W) for GSM900 class1(1W) for DCS1800/PCS1900
Antenna	
GPS	external or embedded patch ceramic
GSM	embedded patch antenna
Battery	Li-ion
Power supply	8..35V DC
Power consumption	5mA (stand by - the vehicle stopped) 500mA (when transmitting)
Operating conditions	-20..55°C, 0..80% RH non-condensing
Degree of protection	IP20
Mounting	inside the vehicle, under the dashboard
Dimensions	60x95x22mm

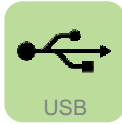
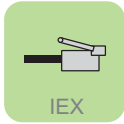
Ordering information

Order Code:
 with external antenna
 internal antenna

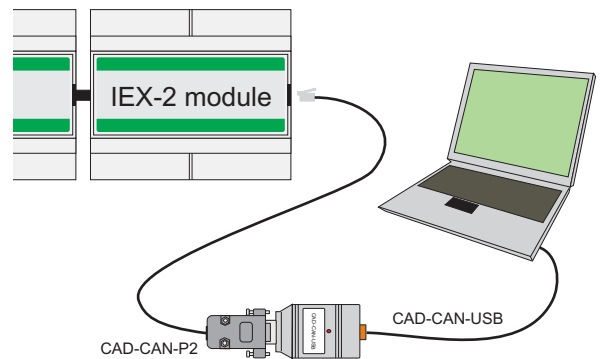
TD-101-E
 TD-101-I

CAN-USB

USB to CAN interface



Special USB to CAN interface that can be used to easily connect to IEX network operating at a maximum baud rate of 1Mbit/s. Interface can be used to update firmware or to change the serial address of a connected IEX device. With its compact plastic casing, the device is ideally suited for use with laptops and notebooks. Software and in-house programming sources are supplied to make the package complete.



Technical specifications

Features

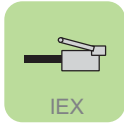
Controller	PHILIPS SJA1000 CAN
Performance	16MHz frequency 82C251 CAN transceiver
Compliance	CAN specification 2.0A (11-bit ID) and 2.0B (29-bit ID)
Connection	9-pole male D-SUB, USB
Power supply	via USB bus from computer
Cable length	70 cm
Operating conditions	10..55°C, 0..80% RH non-condensing
Dimensions	86x20x42mm

Ordering information

Order Code: **CAD-CAN-USB**

CAD-232-A2

A-bus converter



Device is a RS-232 to A-bus converter that is used to connect CyBro-2 controllers into A-bus network.

A-bus network is used when data exchange between multiple controllers or multiple controllers and a SCADA system is required.

Up to two devices (controller, PC, etc.) can be connected to one converter. Up to 32 devices total can be connected in this way.

A-bus lines are protected by galvanic isolation from the RS232.

Data flow is indicated by LED signalization located by each communication port.

Push and click mounting on DIN rail with only 2M dimensions.

24V DC powered over IEX bus.



Technical specifications

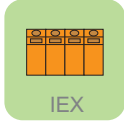
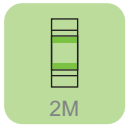
Power supply	24V DC (over IEX bus)
Power consumption	50mA
Operating conditions	0..50°C, 0..85% RH non-condensing
Degree of protection	IP20
Mounting	DIN rail (35mm)
Dimensions	36x99x58mm

Ordering information

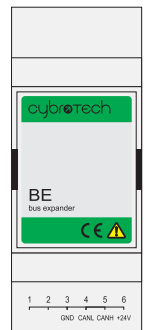
Order Code: **CAD-232-A2**

CAD-BE

Bus expander



This device is a passive switch for easy interconnection between DIN-mounted IEX modules installed in remote locations throughout the building. Unit is DIN mountable and includes an input IEX connector (RJ9), an output (RJ9) connector to connect to the next module, and another screw-terminal to connect to remote IEX modules. Bus expander has small dimensions and is enclosed in a 2M housing. 24V DC powered over IEX bus.



Technical specifications

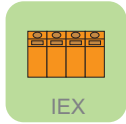
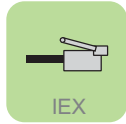
Operating conditions	0..50°C, 0..85% RH non-condensing
Degree of protection	IP20
Mounting	DIN rail (35mm)
Dimensions	36x99x58mm

Ordering information

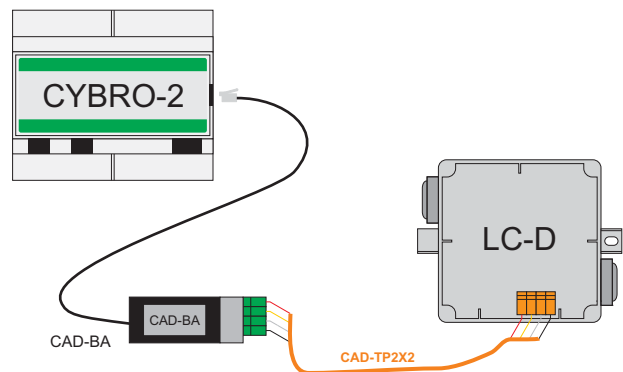
Order Code: **BE**

CAD-BA

Bus adapter



Adapter is used for connecting modules through an IEX bus to a CyBro-2 controller or to other modules. Small dimensions enable installation in restricted spaces. Easy installation with removable bus terminals and RJ9 connector.



Technical specifications

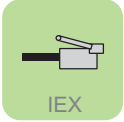
Cable length	0.5m with RJ9 connector
Operating conditions	0..50°C, 0..85% RH non-condensing
Dimensions	65x25x19mm

Ordering information

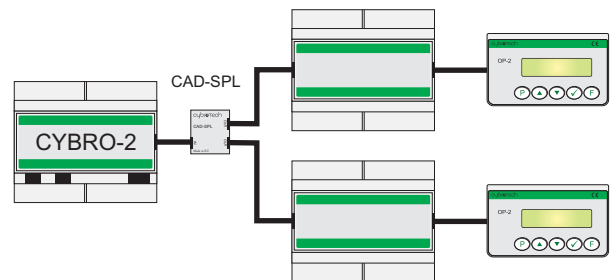
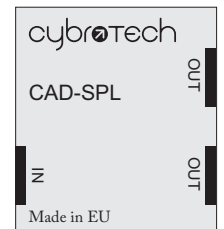
Order Code: CAD-BA

CAD-SPL

Bus splitter



Device is used to easily split a 4-wire telephone cable IEX bus into two separate lines.
Splitter enables easy connection of more than one OP-2 panel to the IEX network.
All connection terminals are of RJ9 type.



Technical specifications

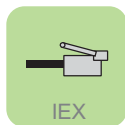
Features	3 x IEX-2 connectors, RJ-9 connectors
Operating conditions	0..50°C, 0..85% RH non-condensing
Degree of protection	IP20
Dimensions	31x35x26mm

Ordering information

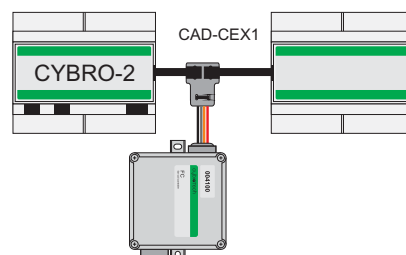
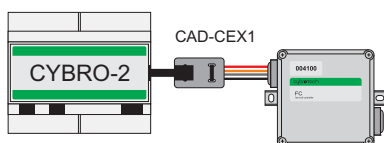
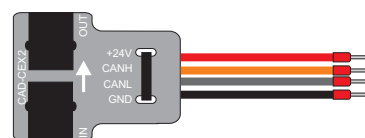
Order Code: **CAD-SPL**

CAD-CEX

Bus adapter/splitter



CAD-CEX1 adapter is used to easily connect expansion modules with push-wire connectors to the IEX network.
 CAD-CEX2 is an adapter/splitter device that enables connection of push-wire connectible modules to bus without attaching an RJ9 connector to the end of the original bus.
 Small dimensions enable installing adapter in limited spaces.
 Easy installation with removable bus terminals and RJ9 connector.



Technical specifications

Wire length	20cm
Dimensions	35x21x18mm (CAD-CEX1) 38x29x18mm (CAD-CEX2)

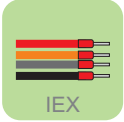
Ordering information

Order Code:
 CAD-CEX1
 CAD-CEX2

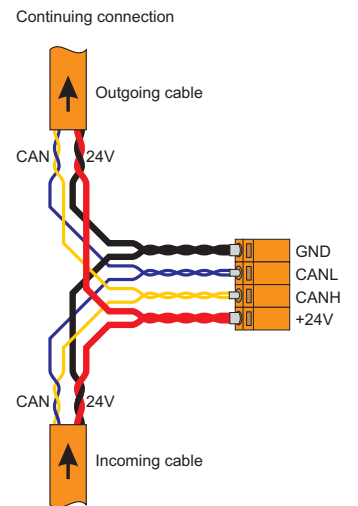
CAD-CEX1
 CAD-CEX2

CAD-TP2x2

IEX bus cable



Specially designed connection cable used for connecting IEX devices. Orange cable coat enables easy identification and clear distinction from other types of cables. Cable consists only of necessary number of conduits that are color-coded in a way that enables easy connection and network scan.



Technical specifications

Wires	2 x twisted pair (2x0.25mm ² + 2x0.75mm ²)
Diameter	7mm
Copper weight	21.0kg/km
Outer jacket	PVC, orange color

Ordering information

Order Code: **CAD-TP2X2**

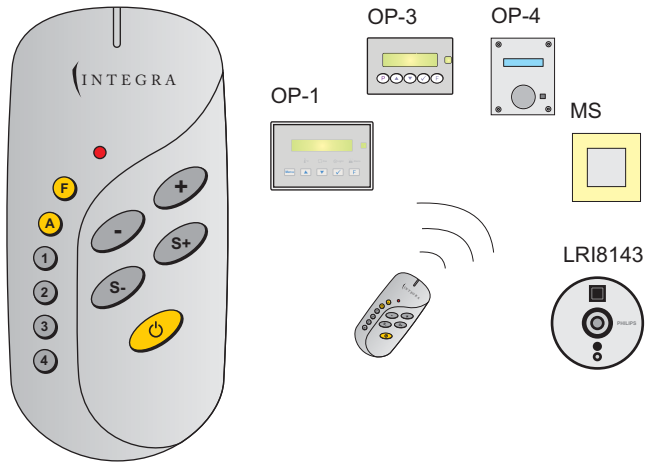
Minimum order quantity: 100m

RE

IR remote



IR remote controller designed to operate with CyBro-2 automation systems through MS, OP-1, OP-3 devices. The unit is ergonomically designed to fit comfortably into the user's palm. 11 marked keys that can be used to control lighting (ON/OFF, dimming, scene selecting), shutters (opening/closing) etc. Transmission is indicated by a red LED on the remote. Wide transmission angle and operating range of up to 5m ensures good reception from any location in the room. 2 standard AAA batteries are included with the remote.



Technical specifications

Keys	11
Power supply	2 x LR03 AAA battery
Operating range	5m
Dimensions	58x120x26mm

Ordering information

- Order Code:
- remote
 - wall-mounted holder

RE
WH-RE-OW

RGB-D

RGB light controller



RGB-D is a stand-alone unit with all integrated functions already defined.

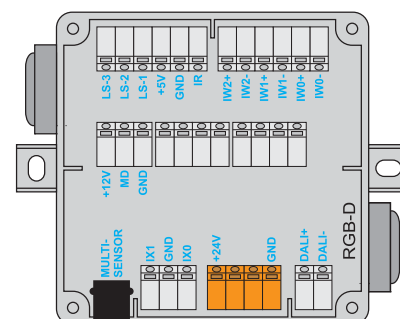
User has a complete freedom when creating personal profile with:

- * adjusting the hue / color softness in small, high-resolution steps
- * speed of color cycling
- * turning on and off the fade function
- * delaying power off - RGB controller with DALI output

The device features several inputs that enable full control via IR remote control unit, switches, potentiometers and multisensors.

Push-wire connectors allow easy connection and disconnection.

The device is enclosed in a protective plastic mounting box which enables installation in a double ceiling, double floor, on the wall, or on a DIN rail. 24V DC powered externally.



Technical specifications

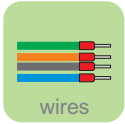
2 digital input	common-ground switch with internal pull-up (12V, 1mA)
3 analog inputs	0..10V (10bit ADC, 0..1023)
Internal pull-up	12V, 2mA
1 DALI output	max. 32 ballasts
Output current	max. 100mA
2 sensor connectors	Integra-BM multisensor
	Multisensor (entry for RJ-12 modular jack)
Power supply	24V DC
Power consumption	160mA
Operating conditions	0..50°C, 0..85% RH non-condensing
Degree of protection	IP42
Mounting	in-wall
Dimensions	108x86x46mm

Ordering information

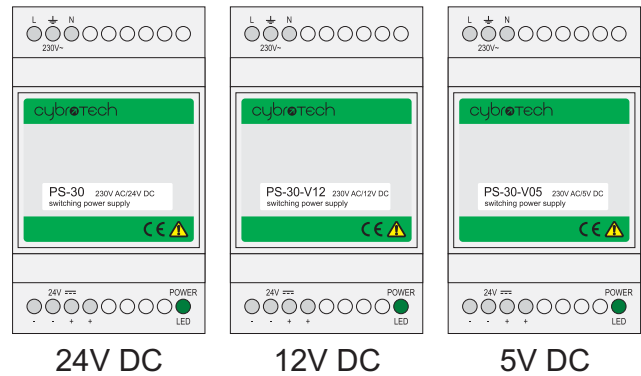
Order Code: **RGB-D-FB**

PS-30

Switching power supply unit



CyBro-2 devices can be powered by one of our several power supply units. Different output voltages (24V DC, 12V DC, 5V DC) can be selected. Power supply is plugged to power mains 230V AC. Up to 34W of DC power can be outputed. More power can be provided by PS-50 or PS-80 units. Double output screw terminals for easy wire connection. Power indication with a LED for quick operation check. Each unit is enclosed in a 3M housing and is mountable on a DIN rail.



Technical specifications

	24V DC	12V DC	5V DC
Input			
Voltage	180..256V AC	180..256V AC	180..256V AC
Frequency	47..63Hz	47..63Hz	47..63Hz
Current	0.24A (250V AC)	0.24A (250V AC)	0.24A (250V AC)
Output			
Voltage	24V DC $\pm 3\%$	12V DC $\pm 3\%$	5V DC $\pm 3\%$
Current	max. 1.4A	max. 2.4A	max. 3.8A
Ripple and noise	max. 100mA	max. 100mA	max. 100mA
Protection	short circuit protection, overload (heat) protection		
Efficiency	cca 85% by max load and 230V AC		
Operating conditions	0..50°C, 10..85% RH non-condensing		
Degree of protection	IP20		
Mounting	DIN rail (35mm)		
Dimensions	53x90x58mm		

Ordering information

Order Code:
 • 24V DC output
 • 12V DC output
 • 5V DC output

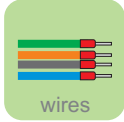
PS-30
 PS-30-V12
 PS-30-V05

PS-50

Switching power supply unit



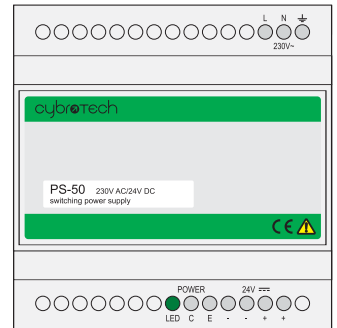
5M



wires



When PS-30 power supply unit does not deliver the required power, PS-50 can be used instead, providing up to 66W of 24V DC power. Power supply is plugged to power mains 230V AC. Double output screw terminals for easy wire connecting. Power indication with LED diode for quick operation check. Units are in 5M housing and are mountable on DIN rail.



Technical specifications

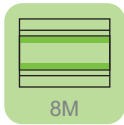
Input	
Voltage	207..256V AC
Frequency	47..63Hz
Current	0.6A (250V AC)
Output	
Voltage	24V DC \pm 3%
Current	max. 2.75A
Ripple and noise	max. 100mA
Protection	short circuit protection, overload (heat) protection
Efficiency	cca 85% by max load and 230V AC
Operating conditions	0..50°C, 10..85% RH non-condensing
Degree of protection	IP20
Mounting	DIN rail (35mm)
Dimensions	89x90x58mm

Ordering information

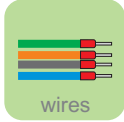
Order Code: PS-50

PS-80

Switching power supply unit

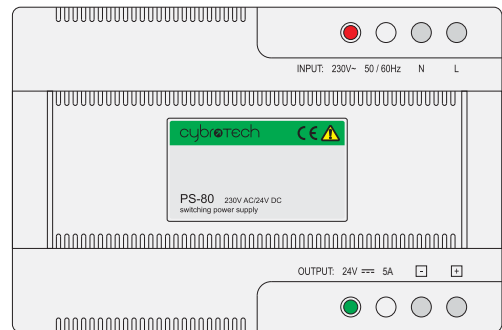


8M



wires

Providing up to 120W of 24V DC voltage.
Power supply is plugged to power mains 230V AC.
Double output screw terminals for easy wire connection.
Power indication with LED diode for quick operation check.
The unit is enclosed in an 8M housing and it is mountable on a DIN rail.



Technical specifications

Input	
Voltage	207..256V AC
Frequency	47..63Hz
Output	
Voltage	24V DC $\pm 3\%$
Current	max. 5A
Ripple and noise	20mVpp
Protection	short circuit protection, overload (heat) protection
Efficiency	cca 85% by max load and 230V AC
Operating conditions	0..50°C, 10..85% RH non-condensing
Degree of protection	IP20
Mounting	DIN rail (35mm)
Dimensions	140x93x66mm

Ordering information

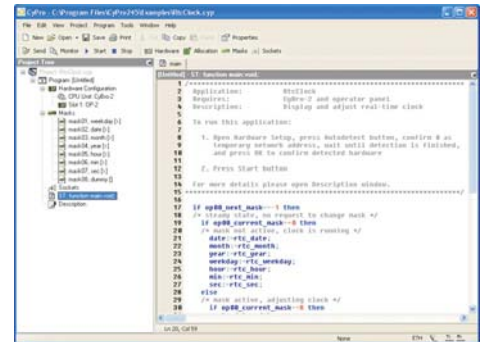
Order Code: **PS-80**

CyPro

Integrated development environment



- CyPro is a software package for programming CyBro-2 controllers. It runs on Microsoft Windows 95/98/ME/NT4/2k/XP/Vista. CyPro is a fully featured IDE (integrated development environment) that comprising an editor, a compiler, and an on-line monitor.
- CyPro development tool is based on the IEC 1131-3 standard. It employs instruction lists and structured text programming, extended with several useful visual tools.



Hardware requirements

- Any PC capable of running MS Windows 95 is adequate, although the recommended system is Pentium 500MHz with 128MB RAM. CyPro will occupy about 4MB of disc space. To connect the CyBro to a PC, a standard serial (RS232) port or Ethernet port is required. If a serial port is not available, connection may also be established using either USB-to-serial or Ethernet-to-serial converter.

Ordering information

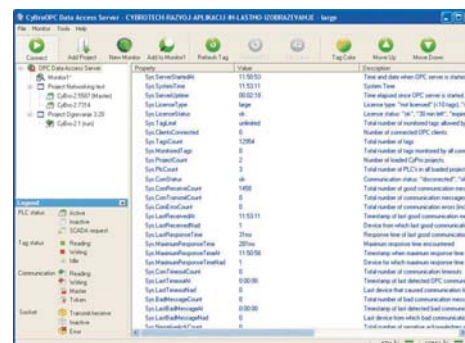
Latest addition available free for download at:
<http://www.cybrotech.co.uk>

CyBro OPC

Data access server



- A CyBro OPC Data Access Server enables OPC clients (such as SCADA) to connect to the CyBro-2 system, using A-bus protocol. OPC includes open connectivity via open standards. Based on fundamental standards and technology of the general computing market, the OPC provides specifications that meet the requirements of industrial automation. Once an OPC server is set up for a particular device, it can be reused by any application that is able to act as an OPC client. An OPC server uses Microsoft's OLE technology (also known as the Component Object Model, or COM) to communicate with clients. COM technology permits a standard for real-time information exchange between software applications and process hardware.



Hardware requirements

- CyBro OPC Server may be installed on Microsoft Windows 95, 98, ME, NT4, 2000, XP and Vista. Recommended operating system is MS Windows 2000 with the latest available service pack. Installation occupies approximately 2.5MB of disk space. RAM usage depends on the number of connected controllers, number of clients, and number variables being monitored.

Ordering information

Order Code:

- evaluation (up to 10 tags)
- small (up to 100 tags)
- medium (up to 1000 tags)
- large (unlimited number of tags)

free*
 CYBRO-OPC-S
 CYBRO-OPC-M
 CYBRO-OPC-L

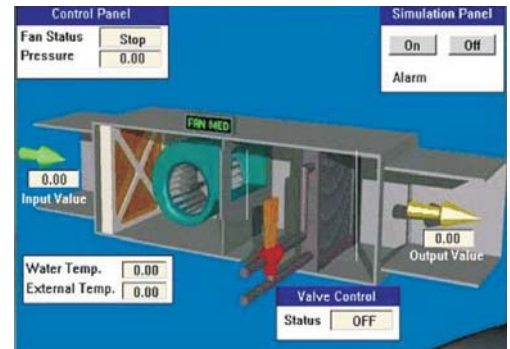
* Latest addition available free for download at:
<http://www.cybrotech.co.uk>

Integra View

SCADA development environment



- Integra View for Windows and Internet is a powerful HMI/SCADA PC software package which transmits real-time and historical process data to the control room and forward. It is a generator of applications, so all control and management functions are already incorporated in the development tool. Integra View can operate with any Web server. OPC client interface can be used to connect the Integra View to the CyBro OPC server (included in the package) and the CyBro-2 system.



Integra View enables execution of applications in two ways:

- Integra View SCADA applications running on Windows NT / 2000 / XP
- Integra View Web-based SCADA applications, using standard Windows NT / 2000 / XP Web servers

Such Java applications are visible in Web browsers without any additional software or hardware keys. Integra View for Windows and Internet can operate with any Web server, making data immediately available to all users. A OPC client interface can be used to connect Integra View to the Cybro OPC server and Cybro PLC. Integra View includes a high-performance image rendering graphic interface, allowing the operator to control the entire process or a part thereof. It also comprises convenient analytical graphs that present the behaviour and trend of parameters in a specified time period. Backup data can also be easily displayed in graphs. The user simply changes the mode of the graph from on-line into history and backup data is immediately shown. The graphs also support different color-coding; hence, any data falling outside of a predefined area will be clearly indicated, allowing the user to quickly notice any anomalies in the system. Alarm can be generated by the user with the help of a formula that can include calculating operations or a comparative function with a very simple syntax. Alarms can be confirmed by the authorized user either locally from the SCADA station or via web. In case of an alarm, various response measures can be initiated, such as opening a particular image or starting up a third-parity application. Integra View enables simple production of web-supported SCADA without any special knowledge of HTML or Java. Web application setup is particularly easy owing to the use of Integra View wizard for conversion of the existing images into HTML format, which comprises Java applets for objects, alarms, and graphs.

Ordering information

Order Code:

- OPC license, 500 tags
- OPC license, 1000 tags

SCADA-I-VIEW-500
SCADA-I-VIEW-1000

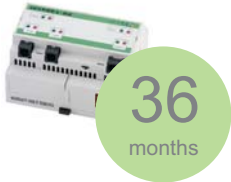
Warranty

and EN standards info



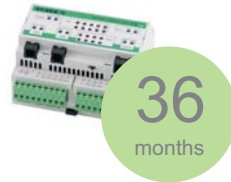
Controllers

RC



EN 61131-1,
EN 61131-2,
EN 50090-2-2,
EN 50090-2-2/A1

CyBro-2-24
CyBro-2-230



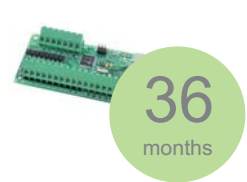
EN 61131-1,
EN 61131-2,
EN 50090-2-2,
EN 50090-2-2/A1

uCyBro-2R
uCyBro-2T



EN 61131-1,
EN 61131-2,
EN 50090-2-2,
EN 50090-2-2/A1

IPU



EN 61131-1,
EN 61131-2,
EN 50090-2-2,
EN 50090-2-2/A1

Modules

Bio-24R
Bio-24T
Bio-8R4



EN 61131-1,
EN 61131-2,
EN 50090-2-2,
EN 50090-2-2/A1

AiR-12
AiV-12
AiC-12
AoV-12



EN 61131-1,
EN 61131-2,
EN 50090-2-2,
EN 50090-2-2/A1

HR



EN 50090-2-2,
EN 50090-2-2/A1

FC
8C



EN 50090-2-2,
EN 50090-2-2/A1

O2



EN 50090-2-2,
EN 50090-2-2/A1

TS



LC-S
LC-D
LC-DC



EN 50090-2-2,
EN 50090-2-2/A1

SW-L
SW-W
SW-W2



EN 50090-2-2,
EN 50090-2-2/A1

Sensors

ES
MS



THS02
CAD-POTI



LRI8143
LRM8114



LRM8115



EN 60950,
EN 50081-1,
EN 50082-1,
EN 55022

EN 60950,
EN 50081-1,
EN 50082-1,
EN 55022

Operator panels

OP-1
OP-3



EN 50090-2-2,
EN 50090-2-2/A1

OP-2
OP-4



EN 61131-1,
EN 61131-2,
EN 50090-2-2,
EN 50090-2-2/A1

OPT04/05
OPT05E/08E
OPT10E/12E



EN 55011,
EN 50081-1,
EN 50082-1

WS-12



Accessories

RE



CAD-232-A2



GSM-ETH-RT
GSM-T02



TD-101



Warranty

CAN-USB



CAD-BE
CAD-SPL



CAD-BA
CAD-CEX



RGB-D



EN 50090-2-2,
EN 50090-2-2/A1

Power supply units

PS-30



EN 61558-1,
EN 50081,
EN 50082

PS-50



EN 61558-1,
EN 50081,
EN 50082

PS-80



EN 61558-1,
EN 50081,
EN 50082

Contacts



Headquarters

Cybrotech Ltd
14 Brinell Way
Harfreys Industrial Estate
Great Yarmouth
Norfolk, Nr31 0LU - UK
tel: +44 (0)1493 650 222
www.cybrotech.co.uk
info@cybrotech.co.uk
support@cybrotech.co.uk

Branch offices

Slovenia
[Cybrotech d.o.o](#)
Arja vas 19
3301 Petrovce - Slovenia
tel: +386 (0)3 713 1940
fax: +386 (0)3 570 7500

Croatia
[Cybrotech d.o.o](#)
Bohinjska 11
10000 Zagreb - Croatia
tel: +385 (0)1 307 9239
fax: +385 (0)1 307 9900

Slovenia
[Cybrotech d.o.o](#)
OIC - Hrpelje 38
6240 Kozina - Slovenia
tel: +386 (0)5 689 2020
fax: +386 (0)5 689 2039

China
[Representative office China](#)
Wulumuqi Bei Rd. #199, Floor 20, Room 2009, World Union
Building
200040 Shanghai - PR China
tel: +86 (0)21 6249 0371
fax: +86 (0)21 6249 0372
www.cybrotech.cn

Your local partner

Please visit www.cybrotech.co.uk to find a detailed list of distributors near you.



Cybrotech, Ltd.
14 Brinell Way, Harfreys Industrial Estate,
Great Yarmouth, Norfolk, Nr31 0LU - UK,
tel: +44 (0)1493 650 222, info@cybrotech.co.uk

© Copyright 2008, Cybrotech, Ltd.
All rights reserved.
Printed in EU, 09/2008
Data subject to alteration without notice.