Smart-house Controller

BH8-CTRLX-230

Programmable smart-house controller

Option for external GSM Modem for monitoring and control via SMS

User-friendly configuration via Windows XP/Vista/Windows 7

Ethernet and SD-card for configuration and smart-house data read/write

Full featured smart-house operations: light function, Rollerblind, Alarm etc.

RS232 connection for external device connection/gateways

H8-housing for DIN-rail mounting (EN50022)

AC or DC power supplied (battery backup)

Web Server functionality for remote control



INPUT/OUTPUT SPECIFICATIONS

		DA 444	
Serial Port	RS 232		
COM 1	9600 Baud - 115 kBaud,		
		adjustable	
Pin assignment	TxD	Pin 12	
	RxD	Pin 13	
	GND	Pin 14	
Dielectric voltage			
Com.port - smart-house		\geq 2 kVAC (rms)	
Ethernet		10/100 MB RJ45	
smart-house Output		smart-house bus	
Output voltage		8.2 V	
Current (absolute max. ratings)		< 450 mA @ 25°C	
	0.	< 300 mA @ 50°C	
Short-circuit protection		Yes	
Sequence time			
32 in- and outputs		38.6 ms	
128 in- and outputs		132.3 ms	
,			

SUPPLY SPECIFICATIONS

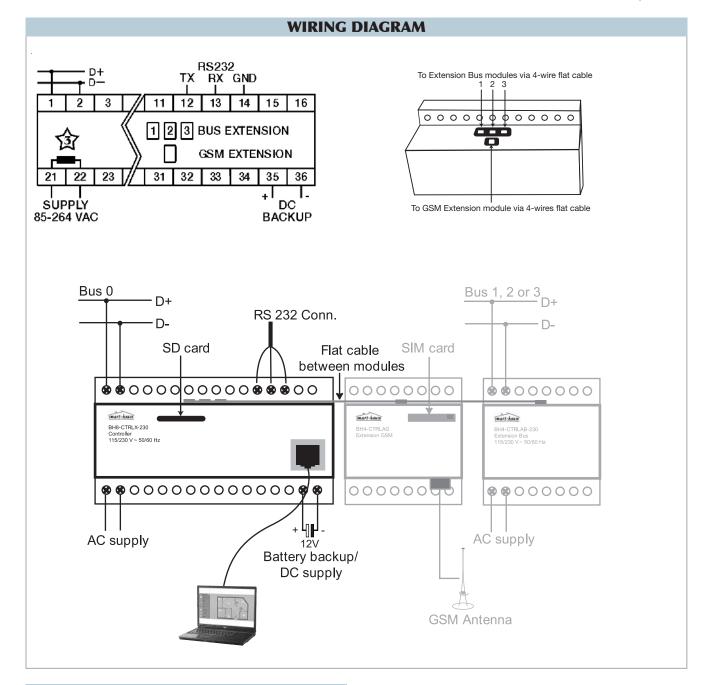
Power supply AC-Drive Rated operational voltage through term. 21 & 22 Frequency		Overvoltage cat. III (IEC 60664) 85-264 VAC (IEC 60038) 47 to 63 Hz	
Rated operational power Power dissipation		Typ. 20 VA at max load < 12 W	
Rated impulse withstar	nd		
voltage	230 V 115 V	4 kV 2.5 kV	
Dielectric voltage			
Supply - smart-house bus		\geq 3 kVAC (rms)	
DC in smart-house bus		None	
Com. ports - smart-house bus		\geq 3 kVAC (rms)	
Supply - Com. ports		\geq 3 kVAC (rms)	
DC charge			
U out through term. +35 & -36		13.7V ± 0.1V	
Max. charge current (short)		300 mA	
Charge current @ 12V DC		app. 40 mA	
Power supply	DC-Drive	Overvoltage cat. III (IEC 60664)	
Rated operational volta	age		
through term. +35 & -36		13 VDC ± 10%	
Reverse polarity protection		Yes	
Rated operational power		10 W	
Power dissipation		\leq 7 W	

GENERAL SPECIFICATIONS

Real-time clockAccuracyBetter than ± 1 minute/monthInternal back-up timeTyp. 48 hours	Environment Degree of protection Pollution degree	IP 20 3 (IEC 60664)	
Power ON delay	< 30 s	 Operating temperature Storage temperature 	0° to +50°C (+32° to +122°F) -20° to +85°C (-4° to +185°F)
Indication forSupply ONLED, greenON LineLED, yellowBattery driveLED, yellowCOM statusLED, redEthernet collisionLED, yellowEthernet linkLED, green	Humidity (non-condensing) Mechanical resistance Shock Vibration	20 to 80% RH 15 G (11 ms) 2 G (6 to 55 Hz)	
	Dimensions Material (see "Technical Information") Weight	H8-housing 400 g	

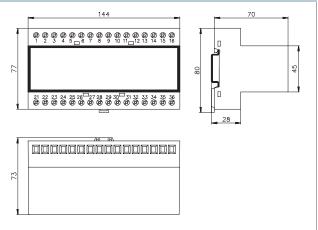


Smart-house Controller



CARLO GAVAZZI

DIMENSIONS (mm)



Smart-house Controller



MODE OF OPERATION

Intelligent functions

The smart-house controller is a programmable integrated unit specially designed for building automation applications. The controller includes dedicated functions for light control, temperature control, roller blind control and alarm monitoring. And it includes smart functions like sequence control which enables a series of actions to be performed automatically, and simulated occupation to control the lights and roller blinds while the owner is away, based upon the real life behaviour of the inhabitants.

Smart-house Controller Configuration

The smart-house controller is as default configured without intelligent in- and output functions to run modules on the smart-house bus. In order to set up the intelligent functions, the controller has to be configured by the Windows based smart-house Configuration tool. This software is free and delivered on a CD-rom together with the controller.

The smart-house Configuration tool operates on Windows $\ensuremath{\circledast}$ XP / Vista / Win 7 PC's.

The smart-house Configuration tool secures a full documentation of the smart-house installation. It is used to create a logic overview of the building, and in each room you may place the smart-house IO modules necessary for the wanted functions. To simplify this operation, the smart-house Configuration tool includes a database of all the smart-house products. Finally, the functions in each room are configured, using the input/output modules installed.

A configuration can be transferred to/from the controller either through the Ethernet or by a standard SD-memory card.

Web Server

The Web Server provides remote access via the internet by using smart-phones with browsing capability.

It provides an actractive and user friendly interface to control air conditioning, lighting, alarms, temperature set points, timers, system time, roller blinds, sequences and weather sensors. Different users can be created with different access to functions and rooms.

Power LED

The green power LED will be on when the module is connected to power.

A bus short will be indicated by the green LED in one of two ways:

 The light intensity will dim after approximately 30 sek.
 The LED and the yellow bus LED will be flashing.

Bus LED

At power UP, the yellow bus LED

will be constant ON immediately. 8 VDC will be on the bus for charging up bus-supplied modules. After power ON delay, the led will be interrupted in each bus period resulting in weak flashing in the constant light. The more outputs activated on the bus, the more the led is flashing.

GSM Extension Module Option BH4-CTRLAG

The smart-house Controller can be connected to a GSM extension module which enables monitoring and control of smart-house signals via SMS messages to/from mobile GSM telephones.

There are 3 different ways to use SMS messaging:

• The smart-house Controller can be programmed to send out event-based SMS messages. The event can be a channel switching ON or OFF, or it can be an analog signal crossing a set-point.

• Requests for status of digital or analog data can be sent and answered via SMS messages.

• Status of digital channels can be controlled by sending commands via SMS messages.

In order to make use of the GSM module, the following is required:

• A SIM-card with the pin-code 9090 needs to be inserted into the slot in the front of BH4-CTRLAG. The SIM-card must be a 3V type. • A GSM antenna needs to be connected to the FME connector on BH4-CTRLAG. If the unit is installed in a metal enclosure, the antenna must be installed outside the enclosure.

Bus extension module option BH4-CTRLAB-230

The smart-house controller can be connected with up to 3 bus extension modules, which each represent a smart-house net enabling 4 x 128 inputs and 4 x 128 outputs.

The Controller is named BUS 0, and the Extension bus modules BUS 1, 2 and 3. The BUS names are used during configuration of the smart-house controller.



TYPE SELECTION

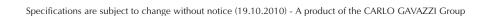
Supply 115/230 VAC / 12 VDC Ordering no. BH8-CTRLX-230

SCOPE OF SUPPLY

- 1 x smart-house Controller
- 1 x CD-rom
- 1 x Ethernet cable
- 1 x SD card

BH8-CTRLX-230 SW BH8-CTRLX-230 ACCESSORIES
External bus module BH4-CTRLAB-230

External GSM module BH4-CTRLAG BH4-CTRLAG



Mouser Electronics

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