

# Building Automation.



CHORUS is also Building Automation. A single solution from the home to larger buildings: the European standard KONNEX / EIB for the building automation management, is in accordance with the EN50090 standard.



EIB command and display panel



EIB wall-mounting timed thermostat



4 channel 16A EIB actuator

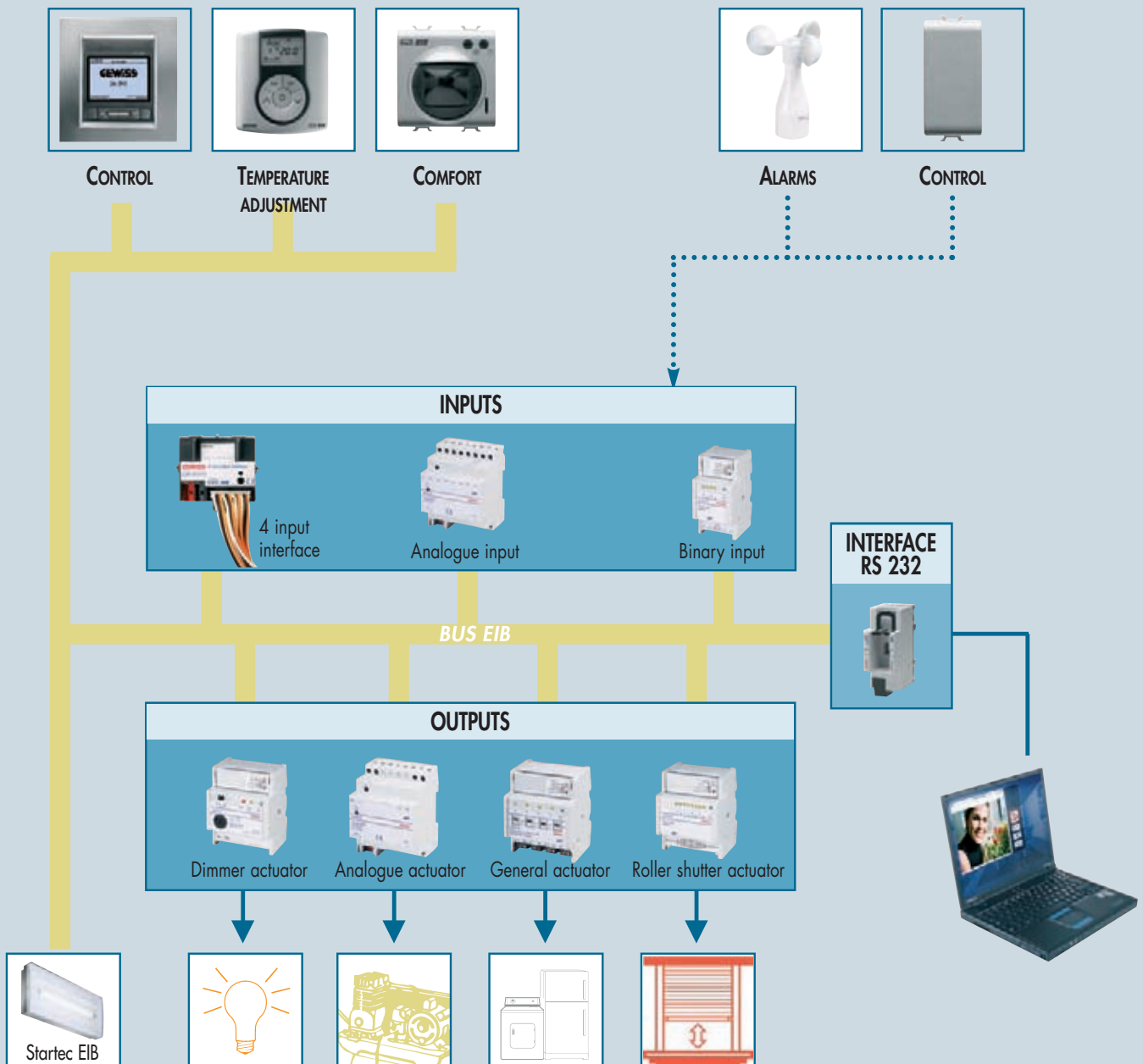
# The KNX/EIB Bus system and its architecture

CHORUS is a scalable offer for all system types and needs. With the same technology as that used for the home and building automation, the choice of the bus standard KNX/EIB also allows to create solutions for the Building Automation without limiting the extension and number of devices. The devices are configured with the PC ETS software.

ETS is an indispensable tool both for the designer and installer to configure even the most complex of systems. It supports powerful inspection and control functions to avoid oversight errors and gives a clear and complete view of the automation functions that need to be configured, both at a general and at a detailed level of the system.

The Gewiss KONNEX-EIB offer is completed by the integration of CHORUS products for the Building Automation.

## FUNCTIONS



## COMMAND AND VISUALISATION SUPERVISION

### TOUCH SCREEN PANELS

GW10000VT



#### MASTER - TOUCH SCREEN COMMAND AND VISUALISATION PANEL - FLUSH-MOUNTING

Code	Power supply voltage	Display	Pack Carton
GW 10 000 TB	230V ac	Colour touch screen 10.4"	1
GW 10 000 VT	230V ac	Colour touch screen 10.4"	1
GW 10 000 VA	230V ac	Colour touch screen 10.4"	1

**CHARACTERISTICS:** colour TFT touchscreen control panel, for commanding and controlling the EIB system. Integrates the function of internal entryphone-with-screen and speakerphone with that of web server, allowing the remote control of the system, via the Internet. Visualisation of commands and status by means of icons

on maps, images, plans. Video resolution 800x600, Linux operative system.

**APPLICATIONS:** local and remote control (via the Internet) of the EIB system, logical functions, timer, automatic sending of e-mails regarding events.

In combination with the interface GW90824, it allows the connection to the entryphone-with-screen upright, and the remotisation of the call on the entryphone-with-screen, and of the images deriving from the surveillance videocameras.

Any remote control computer used does not require specific software: just use an Internet Browser.

**NOTES:** flush-mounting box included.

### COMMAND PANELS

GW12789VT



#### EIB COMMAND AND VISUALISATION PANEL - FLUSH-MOUNTING - LUX

Code	Plate Colour	Power supply voltage	Display	For flush-mounting boxes	Dimensions LxHxD (mm)	Pack Carton
GW 12 789 TB	Milk white	230V AC 50/60Hz	Monochromatic 2,8"	GW24237	150x160x57 mm	1
GW 12 789 VT	Titanium	230V AC 50/60Hz	Monochromatic 2,8"	GW24237	150x160x57 mm	1
GW 12 789 VA	Slate	230V AC 50/60Hz	Monochromatic 2,8"	GW24237	150x160x57 mm	1

**CHARACTERISTICS:** control panel with back-lit graphic LCD, for commanding and controlling the EIB system.

Fitted with 6 frontal, navigation button-keys. Equipped with rechargeable backup battery. To be configured using ETS software.

**APPLICATIONS:** allows the command and control of the EIB devices installed.

Allows the control of the burglar alarm system, and the creation of timed command sequences.

It also works as: a clock, calendar, thermometer, memo, and hourly timer.

GW12790VT



#### EIB COMMAND AND VISUALISATION PANELS COMBINED WITH VIDEO ENTRYPHONE - FLUSH-MOUNTING - LUX

Code	Plate Colour	Power supply voltage	Display	For flush-mounting boxes	Dimensions LxHxD (mm)	Pack Carton
GW 12 790 TB	Milk white	230V AC 50/60Hz	Colour 3,5"	GW24237	150x160x57 mm	1
GW 12 790 VT	Titanium	230V AC 50/60Hz	Colour 3,5"	GW24237	150x160x57 mm	1
GW 12 790 VA	Slate	230V AC 50/60Hz	Colour 3,5"	GW24237	150x160x57 mm	1

**CHARACTERISTICS:** the device integrates the functions of command display and visualisation of the EIB system with that of internal gang and speakerphone/entryphone-with-screen. Equipped with rechargeable backup battery. To be configured using ETS software.

## REMOTE CONTROL

### REMOTE CONTROL MODULES



GW90815

#### GSM EIB REMOTE CONTROL - FROM DIN RAIL

Code	Power supply voltage	No. modules DIN	Pack Carton
GW 90 815	230V AC 50/60Hz	6	1

**CHARACTERISTICS:** via the GSM network (for example from a mobile phone), or text messages, the device allows you to send commands to EIB actuators. It is also possible to transmit information arriving from devices connected to the bus (via text messages, to a pre-set telephone number). Using a computer (USB gate), it is possible to set the outgoing messages and the telephone numbers to be used for calls.

To be configured using ETS software.

**APPLICATIONS:** allows the command and control of the EIB devices installed.

The outgoing information (text messages) relates to the status of the actuators commanded.

**NOTES:** equipped with coupling terminal for connection to the bus, with protective cover and GSM antenna.

Three backup batteries (AAA rechargeable) not included. Configuration software included.



GW90825

#### ENTRYPHONE INTERFACE FOR GSM REMOTE CONTROL - FROM DIN RAIL

Code	No. DIN modules	Pack Carton
GW 90 825	2	1

**CHARACTERISTICS:** in combination with the GSM repeaters GW90821, GW90861, GW90815 it allows you to forward the entryphone call arriving from an external position to a pre-set telephone number. The call deviation function can be activated via the front push-button.

By means of the DTMF tones of the telephone called, it is also possible to send commands to activate the electro-lock, or auxiliary configuration commands.



GW90816

#### INTERNET GATEWAY

Code	Power supply voltage	Dimensions LxHxD (mm)	Pack Carton
GW 90 816	12V dc	128x44x176 mm	1

**CHARACTERISTICS:** the device acts as an embedded web server and allows you to manage and control the EIB Easy system via the Internet, or locally, via a LAN. Integrated analogical modem 56kbit/s. Fitted with 2 RJ45 Ethernet gates (10/100 Mbit/s), and 1 RJ11 gate for connection to the PSTN network.

**APPLICATIONS:** remote control via the Internet of the EIB system, logical functions, timer, automatic sending of e-mails regarding events.

In combination with the interface GW90824 it allows the remotisation of video images from the entryphone-with-screen system, or the surveillance telecameras.

The remote control computer used does not require special software: just use an Internet Browser.

Plug power supply included.

### SYSTEM ACCESSORIES



GW90824

#### ENTRYPHONE-WITH-SCREEN INTERFACE FOR MASTER AND INTERNET GATEWAY - FROM DIN RAIL

Code	No. DIN modules	Pack Carton
GW 90 824	9	1

**CHARACTERISTICS:** to be used to connect the Master GW10000 or the Internet gateway GW90816 to the upright of the entryphone-with-screen system.

## INPUTS

### BINARY INPUT MODULES

GW90721



#### EIB 4-CHANNEL CONTACTS INTERFACE - RETRACTABLE

Code	No. Input channels	No. Output channels	Max cables length	Dimensions LxHxD (mm)	Pack Carton
GW 90 721	4	4	10 m	38x32x14 mm	1

**CHARACTERISTICS:** bus interface for the connection of 4 push-buttons or conventional, potential-free contacts.

The reading voltage (SELV) is generated within the device itself. For each input, an output is available for the power supply to a low absorption LED (less than 1mA, like for example GW10898 and GW10899), to visualise the status of the load commanded. To be configured using ETS software.

**APPLICATIONS:** installation in flush-mounting box, junction boxes, or embedded in the blanking modules GW10751, GW12571, GW14571.

The slot on the plastic shell also allows for screw fixing.

**NOTES:** fitted with coupling terminal for connection to the bus, and unshielded cables (for the connection of the inputs), 30cm long, extendable up to 10m, with unshielded, braided cable.

GW10898



#### MINIATURE LAMPS WITH WIRED LEAD AND LED LAMP

Code	Power supply voltage	Lamp	Colour	Cable Colour	Pack Carton
GW 10 898	3 - 5 V dc	Led	Red	Red - black	50
GW 10 899	3 - 5 V dc	Led	Green	Green - black	50

**NOTES:** the miniature lamps with wired lead are equipped with power cables.

If connected to the interfaces GW90721, GW90834 they do not require the use of a current limiting resistance. In this case, the maximum current absorbed is less than 1mA.

GW14751



#### BLANKING MODULE FOR HOUSING 4-CHANNEL CONTACTS INTERFACE

Code	Colour	No. modules Chorus	Pack Carton
GW 10 751	White	1	5/200
GW 12 751	Black	1	5/200
GW 14 751	Titanium	1	5/200

**CHARACTERISTICS:** 1-gang blanking module with lampography KNX-EIB.

**NOTES:** allows the housing and easy identification of the 4-channel contacts interface GW90834 and GW90721; embedded coupling.

GW14782



#### EIB 4-CHANNEL PUSH-BUTTON PANEL - FLUSH-MOUNTING

Code	Colour	No. channels	No. modules Chorus	Pack Carton
GW 10 782	White	4	2	1
GW 12 782	Black	4	2	1
GW 14 782	Titanium	4	2	1

**CHARACTERISTICS:** push-button panel, 4 button keys/4 channels, with integrated coupling unit for EIB bus. Each button key has an amber, night-locating LED, and a green LED to visualise the status of the commanded load. To be configured using ETS software.

**NOTES:** equipped with coupling terminal for connection to the bus, with protective cover and a set of icons to personalise the functions of the button keys.

GW14798



#### EIB 8-CHANNEL RF RECEIVER - FLUSH-MOUNTING

Code	Colour	N. RF input channels	No. modules Chorus	Pack Carton
GW 10 798	White	8	2	1
GW 12 798	Black	8	2	1
GW 14 798	Titanium	8	2	1

**CHARACTERISTICS:** 8-channel radio receiver to interface the command devices of the "RF Command and Control" system with the actuators of the EIB system. Up to 4 command devices can be associated with each radio input channel.

To be configured using ETS software.

**NOTES:** fitted with coupling terminal with protective cover for connection to the bus. To be used in combination with:

RF push-button panels, RF remote control, RF movement detectors, RF timed thermostats, RF two-way timed thermostats, and RF input modules.

## SENSORS



GW14786

### EIB LIGHT-SENSITIVE IR MOVEMENT DETECTOR - FLUSH-MOUNTING

Code	Colour	Recovery time	Threshold time	No. Modules adjustment	Pack Carton
GW 10 786	White	10s - 1min	10 - 500 lux	2	1
GW 12 786	Black	10s - 1min	10 - 500 lux	2	1
GW 14 786	Titanium	10s - 1min	10 - 500 lux	2	1

**CHARACTERISTICS:** movement sensor with detection conditioned by the brightness level set. Non-divisible, adjustable lens. Operating range: 10m. Vertical bearing angle: 30°. Horizontal bearing angle: 105°. Light threshold value adjustable by means of the frontal access trimmer or ETS parameter. The cycle time can be set via ETS and modified ( $\pm 50\%$ ) via the front access trimmer. Frontal green LED signals movement detection, and command entry. To be configured using ETS software.

**APPLICATIONS:** allows you to send timed commands to the movement detector.

The device is able to manage a safety pause upon the deactivation of the piloted load. For installation indoors.

**NOTES:** fitted with coupling terminal with protective cover for connection to the bus.



GW90769

### WIND SENSOR

Code	Level of protection	Pack Carton
GW 90 769	IP65	1

**CHARACTERISTICS:** anemometer to be used in combination with the wind sensor interface GW90770.



GW90770

### WIND SENSOR INTERFACE

Code	Power supply	Dimensions LxHxD (mm)	Level of protection	Pack Carton
GW 90 770	230V ac	110x95x38 mm	IP55	1

**CHARACTERISTICS:** allows the interface of the wind sensor GW90769 with the modules GW90721, GW90718, GW90712 and GW90532. Generates an alarm signal, via a potential-free, NO contact, on the basis of the wind intensity (adjustable with 10 threshold values, 3.3...24.5m/s). Wall-mounting.

## OUTPUTS

### OUTPUT MODULES FOR GENERAL LOADS



GW14796

#### EIB 1-CHANNEL 16A ACTUATOR - FLUSH-MOUNTING

Code	Colour	Output contacts	No. modules Chorus	Pack Carton
GW 10 796	White	1NA/NC16A(AC1)/10A(AC15)230Vac	2	1
GW 12 796	Black	1NA/NC16A(AC1)/10A(AC15)230Vac	2	1
GW 14 796	Titanium	1NA/NC16A(AC1)/10A(AC15)230Vac	2	1

**CHARACTERISTICS:** 1-channel actuator to activate loads via the potential-free output contact (NO NC).

Fitted with frontal push-button for local activation, LED for indicating output contact closure, and LED for night locating. To be configured using ETS software.

**APPLICATIONS:** suitable for commanding fluorescent lamps with a maximum current of 4A.

**NOTES:** fitted with coupling terminal with protective cover for connection to the bus.



GW90740

#### EIB 4-CHANNEL 16A ACTUATOR - FROM DIN RAIL

Code	Output contacts	No. modules DIN	Pack Carton
GW 90 740	4NA 16A(AC1)/10A(AC15) 230V ac	4	1

**CHARACTERISTICS:** 4-channel actuator to activate loads via the potential-free output contacts (NO).

Fitted with frontal push-buttons for local activation, and LED indicating output contact closure. To be configured using ETS software.

**APPLICATIONS:** suitable for commanding fluorescent lamps with a maximum current of 4A.

**NOTES:** fitted with coupling terminal with protective cover for connection to the bus.

### OUTPUT MODULES FOR ENGINE COMMAND



GW14797

#### EIB 1-CHANNEL 8A ENGINE COMMAND ACTUATOR - FLUSH-MOUNTING

Code	Colour	Output contacts	No. modules Chorus	Pack Carton
GW 10 797	White	8A(AC1)/3A(AC15)-230V ac	2	1
GW 12 797	Black	8A(AC1)/3A(AC15)-230V ac	2	1
GW 14 797	Titanium	8A(AC1)/3A(AC15)-230V ac	2	1

**CHARACTERISTICS:** 1-channel actuator to activate a motor to move roller-shutters, curtains, Venetian blinds, rolling blinds, etc.

via potential-free output contacts (NO). Fitted with two frontal push-buttons for local activation, two LEDs indicating output contact closure, and two LEDs for night-time locating. To be configured using ETS software.

**NOTES:** fitted with coupling terminal with protective cover for connection to the bus.

## TEMPERATURE ADJUSTMENT

### TEMPERATURE ADJUSTMENT



GW10791

#### EIB TIMED THERMOSTAT - WALL-MOUNTING

Code	Colour	Dimensions LxHxD (mm)	Pack Carton
GW 10 791	White	130x92x23 mm	1
GW 14 791	Titanium	130x92x23 mm	1

**CHARACTERISTICS:** timed thermostat, programmable on a weekly basis, for controlling heating/air-conditioning systems on the EIB bus. Three-level temperature profile (comfort, pre-comfort, economy). Adjustment with two-point (ON/OFF) or proportional (PWM) control. Fitted with back-lit LCD display. To be configured using ETS software.

**APPLICATIONS:** can be used in combination with the thermostats GW10793, GW14793 for adjusting the temperature in specific areas. In this case, the timed thermostat acts as the Master, sending the temperature profile or corresponding set point values to the bus.

**NOTES** fitted with coupling terminal for connection to the bus. The device offers the possibility of a backup power supply with 2 AAA alkaline batteries (not included), to guarantee the updating of the calendar (day, time) in the event of bus voltage absence.



GW14793

#### EIB THERMOSTAT - WALL-MOUNTING

Code	Colour	Dimensions LxHxD (mm)	Pack Carton
GW 10 793	White	85x95x23 mm	1
GW 14 793	Titanium	85x95x23 mm	1

**CHARACTERISTICS:** thermostat for controlling the heating/air-conditioning systems on the bus. Regulation with two-point (ON/OFF) or proportional (PWM) control. Fitted with back-lit LCD display. To be configured using ETS software.

**APPLICATIONS:** can be used in combination with the timed thermostats GW10791, GW14791 for adjusting the temperature in specific areas. In this case, the timed thermostat acts as the Slave, following the temperature profile sent by the Master (timed thermostat), using set point values or the relative variance values defined locally. It also allows you to control the fan coils.

**NOTES** fitted with coupling terminal for connection to the bus. Equipped with rechargeable backup battery to guarantee the updating of the calendar (day, time) in the event of bus voltage absence.

## ACCESSORIES

### INTERFACES



GW20476

#### EIB INTERFACE - BURGLAR ALARM CENTRES

Code	Dimensions LxHxD (mm)	Pack Carton
GW 20 476	38x32x14 mm	1

**CHARACTERISTICS:** interface between the EIB bus and the command centres GW20470, GW20471 of the RF burglar alarm system.

**APPLICATIONS:** allows you to send commands of connection / disconnection / slicing from the EIB bus to the burglar alarm system, and transmit the status of connection / alarm / connection enabling from the burglar alarm system on the EIB bus.

**NOTES** to be installed inside the command centres GW20470, GW20471.

Connection to the unit control via mini DIN serial connector.

Connection to the bus via coupling terminal.