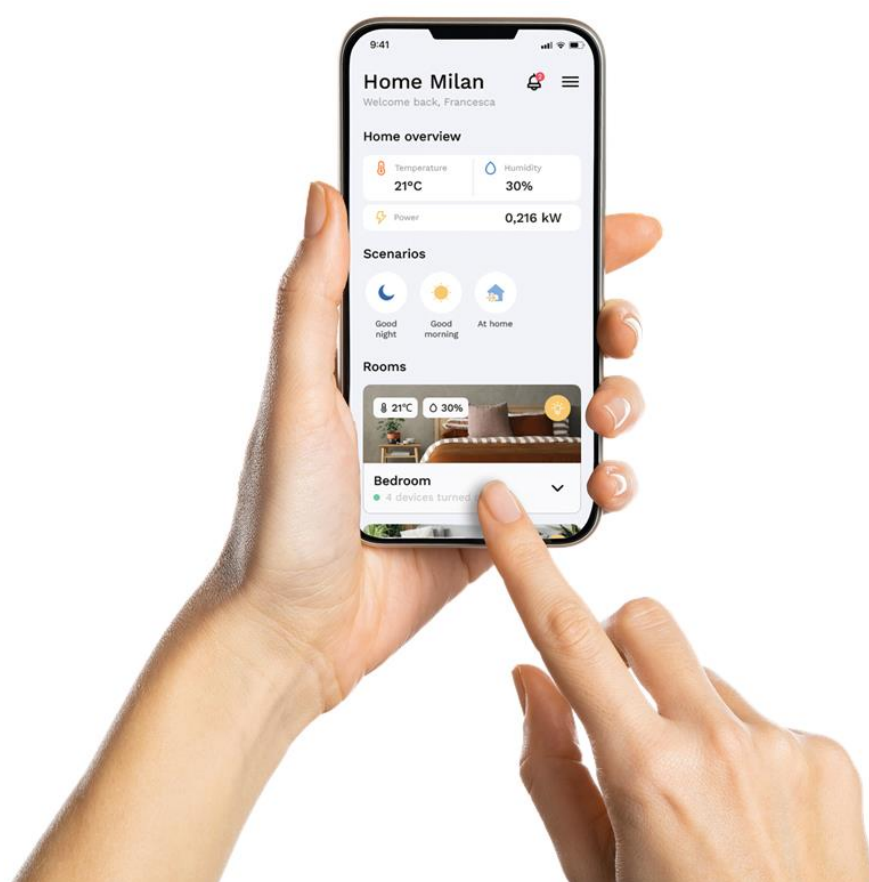


SYSTEM PURA

GEWISS

SMART HOME



SYSTEM MANUAL

CONTENTS

1. INTRODUCTION	3
2. THE RANGE	4
3. SYSTEM SPECIFICATIONS AND ARCHITECTURE.....	20
4. CONFIGURATION.....	21
5. FUNCTIONS	22
5.1 BASE FUNCTIONS.....	22
5.1.1. CONTROL OF LIGHTS AND ROLLER SHUTTERS.....	22
5.1.2. CLIMATE CONTROL	22
5.1.3. SCENES.....	22
5.1.4. PROGRAMMED SCENES.....	22
5.1.5. SENSORS AND ALARMS	22
5.2 ADVANCED FUNCTIONS.....	24
5.2.1. ENERGY MANAGEMENT.....	24
5.2.2. ROUTINE.....	24
5.2.3. LIGHT ANTI-THEFT DEVICE.....	25
5.2.4. TIMER THERMOSTAT FUNCTION.....	25
5.3 CLOUD PLATFORM INTEGRATION.....	26
6. AUXILIARY INPUTS OF CONNECTED DEVICES.....	27
6.1 DESCRIPTION.....	27
6.2 DESCRIPTION OF FUNCTIONS WHICH CAN BE ASSOCIATED WITH THE AUXILIARY INPUTS	27
6.3 FACTORY CONFIGURATION	27
7. BATTERY SENSORS	29
8. ECO CONNECTED 4-COMMAND PUSH-BUTTON PANELS MODULE – ZIGBEE.....	30
9. INSTALLATION.....	31
9.1 DISTANCES	31
9.2 INSTALLATION NOTES.....	31
10. FIRMWARE UPDATE	32
11. LEGACY ZIGBEE DEVICES COMPATIBLE WITH SMART HOME.....	33
12. APPLICATION EXAMPLES – CONNECTION DIAGRAMS.....	34
12.1 TRANSFORMING AN EXISTING SYSTEM INTO A SMART SYSTEM: CONNECTED ROCKER TWO-WAY SWITCH MODULE.....	34
12.2 LIGHT CIRCUIT CONTROLLED BY FOUR POINTS WITH CENTRALISED OFF COMMAND: CONNECTED ROCKER TWO-WAY SWITCH MODULE	35
12.3 TRANSFORMING AN EXISTING SYSTEM INTO A SMART SYSTEM: CONNECTED ROCKER DIMMER MODULE ...	36
12.4 CONNECTION DIAGRAM: MULTI-POINT LIGHTING COMMAND AND CONTROL.....	36
12.5 EXIT HOME SCENE COMMAND TO TURN OFF LIGHTS AND CLOSE SHUTTERS/VENETIAN BLINDS: AUXILIARY MODULE.....	37
12.6 TRANSFORMING AN EXISTING SYSTEM INTO A SMART SYSTEM: CONNECTED ROCKER ROLLER SHUTTER MODULE.....	37
12.7 CONNECTION DIAGRAM FOR CONTROL FROM MULTIPLE POINTS OF ONE ROLLER SHUTTER/VENETIAN BLIND	38
12.8 CENTRALISED CONTROL OF A GROUP OF ROLLER SHUTTERS/VENETIAN BLINDS	38
12.9 CONNECTION DIAGRAM: CONNECTED 2-COMMAND ROCKER MODULE	39
12.10 CONNECTION DIAGRAM: CONTROLLED SOCKET-OUTLETS.....	40
12.11 CONNECTION DIAGRAM: CONNECTED ENERGY METER.....	41
12.12 CONNECTION DIAGRAM: CONNECTED MOTION SENSOR	42
12.13 CONNECTION DIAGRAM: CONNECTED THERMOSTAT	43
13. FAQ.....	44

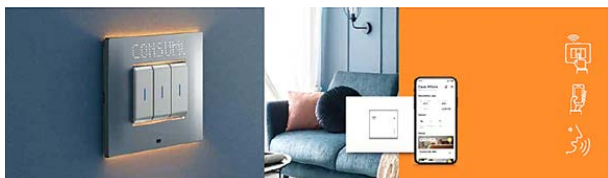
1. INTRODUCTION

System Pura offers modern solutions in design and technology, designed to guarantee safe performance in all conditions and maximum versatility to meet any need. Intelligent, because they simplify work thanks to Smart Home technology, and sustainable, because they look to the future with responsibility.



Traditional system

The System Pura range for traditional systems combines functionality and environmental responsibility: the 1-module control points are made from up to 64% bio-based technopolymers, while the plates and supports use recycled materials in varying percentages. The range includes sockets that comply with national and international standards, devices for signal protection and pickup, and solutions for managing home comfort, reducing environmental impact without compromising quality and performance, even in the most demanding applications.



Smart Home

System Pura expands the Smart Home range with new connected devices, creating a range of smart, convenient, and wireless solutions.

The ZigBee wireless protocol allows integration with the most important smart speakers on the market and with IoT platforms, such as Google Home, Amazon Alexa, and IFTTT, thanks to the Home Gateway App, allowing you to manage lights, shutters, and scenarios, check consumption, and detect critical situations with just your voice. Furthermore, the battery-free and wireless controls allow you to add other control points at any time and with complete freedom.

System Pura *Smart Home* offering is the perfect solution for residential and small commercial buildings, both for new buildings and for renovating and upgrading existing systems with minimal structural work.

2. THE RANGE

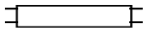
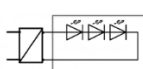
The main technical characteristics of the new System Pura connected devices are described in this chapter. For pre-existing ZigBee devices, refer to the website.

HOME GATEWAY	
<i>Code:</i>	GWC20856, GWC21856, GWC22856
<i>Description:</i>	Home Gateway is a multi-protocol device with ZigBee, wi-fi and Bluetooth interfaces. Flush-mounting with two modules for configuring, supervising, commanding and controlling the smart home system via the cloud. Function management and system data access is via the cloud platform, using the dedicated app (Home Gateway app). The configuration and use of the system require an Internet connection (Wi-Fi); if this is not available, a smartphone can be used in "tethering" mode for the configuration (as a Wi-Fi hotspot).
<i>Functions:</i>	• Connection, configuration and management of the Smart Home system via the app and the Gewiss cloud services • Coordinator of the ZigBee network
<i>Link to documentation on website:</i> 	
TECHNICAL SPECIFICATIONS	
<i>Power supply:</i>	100 ÷ 240V AC, 50/60 Hz
<i>Max. dispersible power:</i>	0.7 W
<i>Radio connections</i>	Wi-Fi (IEEE 802.11 b/g/n), ZigBee (IEEE 802.15.4)
<i>Number of modules:</i>	2
<i>Requirements:</i>	Requires a 2.4 GHz Internet (Wi-Fi) connection
<i>Safety requirements for installation:</i>	Install 315mA 250V ac fuse on the line conductor

CONNECTED ROCKER TWO-WAY SWITCH MODULE	
<i>Code:</i>	GWA1301
<i>Description:</i>	Flush-mounting connected device, with front push-button with rocker operation for commanding an ON/OFF or Timed ON load via an output contact with potential. The device has two independent relays with a “logic” interlock, allowing it to work as a two-way switch (upstream from a junction) or an actuator (connecting one relay only) to control loads from 100 to 240V AC, 50 / 60 Hz. The relays are not managed independently, so it is not possible to connect two different loads to them. The device can measure and communicate the approximate value of the power and energy consumed by the load connected to it via ZigBee. The device can be combined, and commanded via ZigBee, with all the connected ZigBee devices including the 4-command push-button panel (GWA1391). It works as a ZigBee “router” - in other words, it forwards ZigBee messages to other devices. It has 2 inputs (to which axial commands, traditional push-buttons and one-way switches, sensors, etc. can be connected) for replicating the local command of the load connected to it, or for sending ZigBee commands and statuses
<i>Functions:</i>	• ON/OFF actuation • Timed ON/OFF actuation • Scene • Switching associated with a presence/motion sensor • Switching associated with a binary sensor • Measurement of power and active energy consumed
<i>Link to documentation on website:</i> 	
TECHNICAL SPECIFICATIONS	
<i>Auxiliary inputs:</i>	2
<i>Connection requirements for auxiliary inputs:</i>	Must both be connected to line or neutral. It is not possible to connect one input to the line and the other to the neutral conductor. We recommend making wired connection via the auxiliary inputs of any controls to replicate the local control at another location
<i>Possible auxiliary input functions:</i>	• Control of a local load • Sending of ZigBee commands or statuses: ➢ ON/OFF/TOGGLE command ➢ Timed ON command (stair raiser light) ➢ Wired sensor status (binary 0/1) ➢ Control of curtains and roller shutters with single or double push-button ➢ Dimmer control with single or double push-button ➢ Alarm ➢ Scene command
<i>Max. cable length (auxiliary inputs):</i>	50m (single length)
<i>Power supply:</i>	100 ÷ 240V AC, 50/60 Hz
<i>Maximum dissipated power:</i>	2.6 W
<i>Number of modules:</i>	1
<i>Outdoor transmission radius:</i>	100m
<i>Terminals</i>	Screw; max CSA 1x1.5 mm ²
<i>Type of load:</i>	4-250W (100V AC)

		4-500W (240V AC)
		4-50W (100V AC)
		4-100W (240V AC)
		4-60W (100V AC)
		4-120W (240V AC)
		4-125VA (100V AC)
		4-250VA (240V AC)
<i>Safety requirements for installation:</i>		
Install circuit breaker of max 10A on the line conductor to protect the device		
Connection of the output relay to the load to control must always be wired.		
Suggested SPD (ex. GWD6407)		

CONNECTED ROCKER DIMMER MODULE		
Code:	GWA1321	
Description:	Flush-mounting connected device, with rocker push-button for ON/OFF (short press) or for adjusting the brightness of the connected load (long press), with trailing edge control mode. The device can be combined, and commanded via ZigBee, with all the connected ZigBee devices including the 4-command push-button panel (GWA1391). It works as a ZigBee “router” - in other words, it forwards ZigBee messages to other devices. It has 2 inputs (to which auxiliary commands, traditional push-buttons and one-way switches, sensors, etc. can be connected) for replicating the local command and regulation of the load connected to it, or for sending ZigBee commands and statuses.	
Functions:	• ON/OFF actuation • Relative regulation of the brightness • Absolute brightness regulation • Regulating the load control maximum and minimum • Timed ON/OFF actuation • Scene • Switching associated with a presence/motion sensor • Switching associated with a binary sensor	
Link to documentation on website:		
		
TECHNICAL SPECIFICATIONS		
Auxiliary inputs:	2	
Connection requirements for auxiliary inputs:	Must both be connected to line or neutral. It is not possible to connect one input to the line and the other to the neutral conductor. We recommend making wired connection via the auxiliary inputs of any controls to replicate the local control at another location	
Possible auxiliary input functions:	• Control of a local load • Sending of ZigBee commands or statuses: ➢ ON/OFF/TOGGLE command ➢ Timed ON command (stair raiser light) ➢ Wired sensor status (binary 0/1) ➢ Control of curtains and roller shutters with single or double push-button ➢ Dimmer control with single or double push-button ➢ Alarm ➢ Scene command	
Max. cable length (auxiliary inputs):	50m (single length)	
Power supply:	100 ÷ 240V AC, 50/60 Hz	
Maximum dissipated power:	5.7 W	
Number of modules:	1	
Outdoor transmission radius:	100m	
Terminals	Screw; max CSA 1x1.5 mm²	
Type of load:		4-75W (100V ac)
		4-150W (240V ac)
		4-75W (100V ac)

		4-150W (240V ac)
		4-75W (100V ac)
		4-150W (240V ac)
		4-75VA (100V ac)
		4-150VA (240V ac)
		4-75W (100V ac)
		4-150W (240V ac)
<i>Safety requirements for installation:</i>		Install an F1AH 250V ac fuse on the line conductor Connection of the output to the load to control must always be wired. In case of a connection to a dimmable Driver for LED strip it is recommended to configure dimming at a minimum of 20% and on/off function as instantaneous to prevent malfunctions and ensure that it turns on correctly Suggested SPD (e.g. GWD6407)
<i>Installation restriction:</i>		• Do not install thermostats or timer thermostats next to the dimmer • Max 2 dimmers per two-gang backbox: the loads switchable by each regulator must be downrated by 50% • Do not install 2 dimmers side-by-side. Insert a blanking module between the two devices

CONNECTED ROCKER ROLLER SHUTTER MODULE	
<i>Code:</i>	GWA1331
<i>Description:</i>	Flush-mounting connected device for commanding the motor that drives roller shutters, curtains, Venetian blinds, roller blinds, etc. via 2 interlocked output contacts with potential. The device is fitted with two relays for controlling a 100-240V AC, 50/60 Hz motor that regulates the up and down movement. There are two front push-buttons for upward and downward movement, and for regulating the tilt of the slats. The device can be combined, and commanded via ZigBee, with all the connected ZigBee devices including the 4-command push-button panel (GWA1391). It works as a ZigBee “router” - in other words, it forwards ZigBee messages to other devices. It has 2 inputs (to which auxiliary commands, traditional push-buttons and one-way switches, sensors, etc. can be connected) for replicating the local movement of the motor connected to it, or for sending ZigBee commands and statuses.
<i>Functions:</i>	• Movement: UP/DOWN/STOP • Position % • Slat opening/closure adjustment • Scenes • Weather alarm • Automatic calibration
<i>Link to documentation on website:</i> 	
TECHNICAL SPECIFICATIONS	
<i>Auxiliary inputs:</i>	2
<i>Connection requirements for auxiliary inputs:</i>	Must both be connected to line or neutral. It is not possible to connect one input to the line and the other to the neutral conductor. We recommend making wired connection via the auxiliary inputs of any controls to replicate the local control at another location
<i>Possible auxiliary input functions:</i>	• Control of a local load • Sending of ZigBee commands or statuses: ➢ ON/OFF/TOGGLE command ➢ Timed ON command (stair raiser light) ➢ Wired sensor status (binary 0/1) ➢ Control of curtains and roller shutters with single or double push-button ➢ Dimmer control with single or double push-button ➢ Alarm ➢ Scene command
<i>Max. cable length (auxiliary inputs):</i>	50m (single length)
<i>Power supply:</i>	100 ÷ 240V AC, 50/60 Hz
<i>Maximum dissipated power:</i>	2W
<i>Number of modules:</i>	1
<i>Outdoor transmission radius:</i>	100m
<i>Terminals</i>	Screw; max CSA 1x1.5 mm ²
<i>Output contacts:</i>	2.3 A cosφ 0.6 (100V AC)
	2.3 A cosφ 0.6 (240V AC)

<i>Safety requirements for installation:</i>	Install circuit breaker of max 10A on the line conductor to protect the device The motor controlling the device must be fitted with a limit switch sensor or an automatic clutch Connection of the output to the motor to control must always be wired. Suggested SPD (e.g. GWD6407)
<i>Limits of compatible weather sensors:</i>	5

CONNECTED 1-COMMAND ROCKER MODULE	
<i>Code:</i>	GWA1361
<i>Description:</i>	Flush-mounting device for sending 1 independent ZigBee commands via the local rocker push-buttons. It has 2 inputs (auxiliary commands, push-buttons and traditional one-way switches, sensors, etc.) for sending ZigBee commands and statuses. The devices are fitted with two LEDs that can be configured for night-time localisation or the visualisation of the status of commanded ON/ OFF loads. The device can send 1 ZigBee commands (ON/OFF and lamp dimming command, roller shutter command, general loads command, scenes) via the local push-buttons. The inputs can be used to add ZigBee commands to other actuators (ON/ OFF and lamp dimming command, roller shutter and Venetian blind command, general loads command, scenes) or the sending of the sensor status on the ZigBee network. It works as a ZigBee "router" - in other words, it forwards ZigBee messages to other devices.
<i>Functions:</i>	• Sending of ZigBee commands or statuses ○ ON/OFF/TOGGLE command ○ Timed ON command (stair raiser light) ○ Control of curtains and roller shutters with single or double push-button ○ Dimmer control with single or double command ○ Scene command
<i>Link to documentation on website:</i> 	
TECHNICAL SPECIFICATIONS	
<i>Auxiliary inputs:</i>	2
<i>Connection requirements for auxiliary inputs:</i>	Must both be connected to line or neutral. It is not possible to connect one input to the line and the other to the neutral conductor.
<i>Possible auxiliary input functions:</i>	• Sending of ZigBee commands or statuses: ➢ ON/OFF/TOGGLE command ➢ Timed ON command (stair raiser light) ➢ Wired sensor status (binary 0/1) ➢ Control of curtains and roller shutters with single or double push-button ➢ Dimmer control with single or double push-button ➢ Alarm ➢ Scene command
<i>Max. cable length (auxiliary inputs):</i>	50m (single length)
<i>Power supply:</i>	100 ÷ 240V AC, 50/60 Hz
<i>Absorbed power:</i>	0.47W (100V AC)
	0.56W (240V AC)
<i>Number of modules:</i>	1
<i>Outdoor transmission radius:</i>	100m
<i>Terminals</i>	Screw; max CSA 1x1.5 mm ²
<i>Safety requirements for installation:</i>	
Install circuit breaker of max 10A on the line conductor to protect the device Suggested SPD (e.g. GWD6407)	

CONNECTED 2-COMMAND ROCKER MODULE	
<i>Code:</i>	GWA1341
<i>Description:</i>	Flush-mounting device for sending 2 independent ZigBee commands via the local rocker push-buttons. It has 2 inputs (auxiliary commands, push-buttons and traditional one-way switches, sensors, etc.) for sending ZigBee commands and statuses. The devices are fitted with two LEDs that can be configured for night-time localisation or the visualisation of the status of commanded ON/ OFF loads. The device can send 2 ZigBee commands (ON/OFF and lamp dimming command, roller shutter command, general loads command, scenes) via the local push-buttons. The inputs can be used to add ZigBee commands to other actuators (ON/ OFF and lamp dimming command, roller shutter and Venetian blind command, general loads command, scenes) or the sending of the sensor status on the ZigBee network. It works as a ZigBee "router" - in other words, it forwards ZigBee messages to other devices.
<i>Functions:</i>	• Sending of ZigBee commands or statuses ○ ON/OFF/TOGGLE command ○ Timed ON command (stair raiser light) ○ Control of curtains and roller shutters with single or double push-button ○ Dimmer control with single or double command ○ Scene command
<i>Link to documentation on website:</i> 	
TECHNICAL SPECIFICATIONS	
<i>Auxiliary inputs:</i>	2
<i>Connection requirements for auxiliary inputs:</i>	Must both be connected to line or neutral. It is not possible to connect one input to the line and the other to the neutral conductor.
<i>Possible auxiliary input functions:</i>	• Sending of ZigBee commands or statuses: ➢ ON/OFF/TOGGLE command ➢ Timed ON command (stair raiser light) ➢ Wired sensor status (binary 0/1) ➢ Control of curtains and roller shutters with single or double push-button ➢ Dimmer control with single or double push-button ➢ Alarm ➢ Scene command
<i>Max. cable length (auxiliary inputs):</i>	50m (single length)
<i>Power supply:</i>	100 ÷ 240V AC, 50/60 Hz
<i>Absorbed power:</i>	0.47W (100V AC)
	0.56W (240V AC)
<i>Number of modules:</i>	1
<i>Outdoor transmission radius:</i>	100m
<i>Terminals</i>	Screw; max CSA 1x1.5 mm ²
<i>Safety requirements for installation:</i>	
Install circuit breaker of max 10A on the line conductor to protect the device Suggested SPD (e.g. GWD6407)	

CONNECTED MOTION SENSOR	
<i>Code:</i>	GWC20858, GWC21858, GWC22858
<i>Description:</i>	Motion sensor, flush-mounting, with detection based on the light threshold value set via the App. The parameters that can be set during configuration via app are the light threshold value and shut-off time after presence detection. The device is equipped with a fixed lens and an energised local contact for direct control of the load. It has 2 inputs (auxiliary commands, traditional push-buttons and one-way switches, sensors, etc.) for replicating the command of the lamp/load connected to the local relay or for sending ZigBee commands and statuses. The device is equipped with a PIR infrared motion sensor whose lens is positioned on the front of the device. The device detects the motion of people and sends the command, via ZigBee, to activate lamps and/or loads, only if the brightness measured is lower than the threshold set via App. The device can activate the load following the detection of movement by a local sensor or a remote sensor. The device sends a command to deactivate (turn off) the load if no motion is detected for a period equal to the shut-off time set via App. Via the local contact, it is possible to directly activate the load and/or connected load. It works as a ZigBee "router" - in other words, it forwards ZigBee messages to other devices.
<i>Functions:</i>	• ON/OFF switching • Timed actuation • Motion-based switching • Monitoring of consumption
<i>Link to documentation on website:</i> 	
Technical specifications	
<i>Auxiliary inputs:</i>	2
<i>Connection requirements for auxiliary inputs:</i>	Must both be connected to line or neutral. It is not possible to connect one input to the line and the other to the neutral conductor.
<i>Possible aux input functions:</i>	• Control of a local load • Sending of ZigBee commands or statuses: ➢ ON/OFF/TOGGLE command ➢ Timed ON command (stair raiser light) ➢ Wired sensor status (binary 0/1) ➢ Control of curtains and roller shutters with single or double push-button ➢ Dimmer control with single or double push-button ➢ Alarm ➢ Priority commands for ON/OFF actuators and roller shutters/Venetian blinds ➢ Scene command
<i>Max. cable length (auxiliary inputs):</i>	50m (single length)
<i>Power supply:</i>	100 ÷ 240V AC, 50/60 Hz
<i>Power supply absorption in standby</i>	3,84 mA (100V)
	2,54 mA (240V)
<i>Max dispersible power</i>	0,7W (100 V ac)
	1,1W (240 V ac)
<i>Number of modules:</i>	1
<i>Outdoor transmission radius:</i>	100m
<i>Terminals</i>	Screw; max CSA 1x1.5 mm ²

<i>PIR sensor:</i>	Max. distance:	8 m
	Horizontal cover:	±50°
	Vertical cover:	±8
<i>Brightness sensor:</i>	Range:	1 ÷ 1000 lux
<i>Type of load:</i>		4-250W (100V AC)
		4-500W (240V AC)
		4-50W (100V AC)
		4-100W (240V AC)
		4-60W (100V AC)
		4-120W (240V AC)
		4-125VA (100V AC)
		4-250VA (240V AC)
<i>Maximum remote sensors limit:</i>		Max 5
<i>Safety requirements for installation:</i>		Install circuit breaker of max 10A on the line conductor to protect the device Respect the minimum load indicated to avoid false malfunctioning signals or undesired behaviour. We recommend the wired connection of the output relay of the device to the load to be controlled (typically this will be one or more lighting devices) Suggested SPD (e.g. GWD6407)

CONNECTED 1-CHANNEL ON/OFF ACTUATOR WITH CURRENT MEASUREMENT		
Code:	GWC20589, GWC21859, GWC22859	
Description:	Flush-mounting device with 1 channel for commanding loads with a live NO output contact and measurement of the power absorbed and the energy consumed. The device is fitted with a push-button and local LED for commanding and visualising the load status, and an input (auxiliary command, push-button and traditional one-way switch, sensors, etc.) for replicating the local command of the load and for sending commands and ZigBee statuses. The actuator can be commanded, via radio, from other devices in the ZigBee system, or via the wi-fi network thanks to the Home Gateway app. The device can be combined, and commanded via ZigBee, with all the connected ZigBee devices including the 4-command push-button panel (GWA1391). It works as a ZigBee “router” - in other words, it forwards ZigBee messages to other devices.	
Functions:	• ON/OFF • Toggle • ON (timed) / OFF • Forcing • Scene • Activation associated with presence/motion sensor • Activation associated with binary sensor (0/1) • Energy consumption limit • Measurement of power and energy consumed	
Link to documentation on website:		
		
TECHNICAL SPECIFICATIONS		
Auxiliary inputs:	1	
Possible auxiliary input functions:	• Control of a local load • Sending of ZigBee commands or statuses: ➤ ON/OFF/TOGGLE command ➤ Timed ON command (stair raiser light) ➤ Wired sensor status (binary 0/1) ➤ Control of curtains and roller shutters with single or double push-button ➤ Dimmer control with single or double push-button ➤ Alarm ➤ Scene command	
Max. cable length (auxiliary inputs):	50m (single length)	
Power supply:	100 ÷ 240V AC, 50/60 Hz	
Maximum dissipated power:	1.8W (100V AC)	
	3.2W (240V AC)	
Number of modules:	1	
Outdoor transmission radius:	100m	
Terminals	Screw; max CSA 1x1.5 mm ²	
Output contact	1 NO 16A (AC1) 240V AC	
Type of load:		800W (100V AC)
		1920W (240V AC)
		60W (100V AC)
		200W (240V AC)
		80W (100V AC)
		200W (240V AC)
		200VA (100V AC)
		500VA (240V AC)

	Heat	16(3) A
		16 A (100V AC)
		16 A (240V AC)
<i>Safety requirements for installation:</i>		Install circuit breaker of max 16A on the line conductor to protect the device Suggested SPD (e.g. GWD6407) Connection of the output relay to the load to control must always be wired. We recommend making wired connection via the auxiliary input of any controls to replicate the local control at another location
<i>Maximum remote sensors limit:</i>		Max 5

CONNECTED THERMOSTAT	
<i>Code:</i>	GWC20857, GWC21857, GWC22857
<i>Description:</i>	Flush-mounting thermostat for controlling heating/cooling systems with management of the temperature manually and the possibility of turning it off. The thermostat can be used both in connected systems paired with the Home Gateway GWC2X856, as well as in conventional non-connected systems. The device is supplied with mains power (100 - 240 V AC - 50/60 Hz) and has an LCD display with RGB backlighting, 4 control push-buttons, an integrated sensor for detection of the ambient temperature and relative humidity. When operating in connected mode, it offers the possibility to select between two control algorithms for two-way systems: two points (ON/OFF) or proportional-integral (PWM). It is equipped with a relay with a change-over contact that can be used to control the boiler or a zone solenoid valve for heating and/or cooling; alternatively (both solutions cannot be used together) the boiler or the zone heating and/or cooling solenoid valve can be managed via a remote device. In that case the solenoid valve must be controlled using a ZigBee actuator. The thermostat has an input for a DTC sensor (the NTC sensor NTC GW10800 can be used) for detecting the outdoor temperature (e.g. for compensation of the temperature measured locally by the thermostat or protection in case of floor heating/cooling). It works as a ZigBee "router" - in other words, it forwards ZigBee messages to other devices.
<i>Functions:</i>	• Two operation types: heating and cooling • Three operating modes: OFF (anti-freeze / high temperature protection), heating, cooling • Regulation of the operating setpoint • Automatic temperature adjustment management* (AUTO mode), activation of weekly temperature control profiles managed via App (cloud) • Control algorithms for 2-way systems: Two points (ON/OFF command), PI proportional (PWM type control)* • One relay output with NO/NC change-over contacts • One input for external NTC temperature sensor** • ZigBee window contact management* • Humidity threshold management* • Dew point* • BOOST function • Display of the unit of temperature measurement in °C or °F * Functions available only in connected mode. ** both functions are available only in connected mode; in non-connected mode (traditional systems), only compensation of the temperature measured locally is available.
<i>Link to documentation on website:</i> 	
TECHNICAL SPECIFICATIONS	
<i>Power supply:</i>	100 ÷ 240V AC, 50/60 Hz
<i>Maximum dissipated power:</i>	Worst case scenario:
	• Display ON (max brightness)
	• Relay ON
	• Network card active
	• Load 5A AC1
	1.1W (100V AC)
	1W (240V AC)
<i>Number of modules:</i>	2
<i>Outdoor transmission radius:</i>	100m

<i>Inputs:</i>	1 input for external temperature sensor (NTC 10K type, e.g. GW10800)
<i>Output contact</i>	1 NO/NC 5 A (AC1) 240V AC
<i>Control algorithms for 2-way systems:</i>	Two points (ON/OFF command) PI proportional (PWM type control)

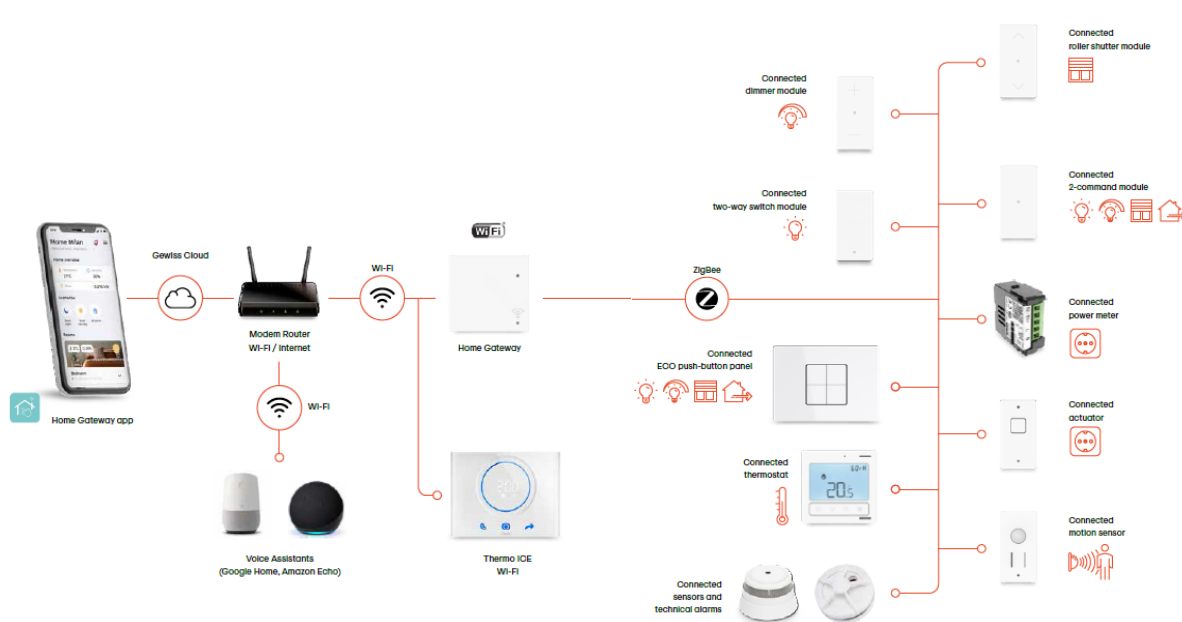
<i>T building protection:</i>	Heating 🔥 :	Minimum threshold:	7°C
		Maximum threshold:	35°C
	Cooling ❄️ :	Maximum threshold:	35°C
		Minimum threshold:	7°C
<i>Settable thresholds limit:</i>	Heating 🔥 :	Minimum threshold:	8°C
		Maximum threshold:	31°C
	Cooling ❄️ :	Maximum threshold:	15°C
		Minimum threshold:	34°C
<i>Compatible external NTC temperature sensors:</i>	GW1x900 (device LED power supply missing)		
	GW10800		
<i>External NTC sensor default configuration:</i>	Default GW1x900 with 100% impact		
<i>Control of the boiler or of a zone motorised valve of the heating/cooling system:</i>	Direct control (via local relay)		
	Remote control (via ZigBee actuator)		
<i>Humidity adjustment range:</i>	20% - 90%		
<i>Humidity threshold control algorithm:</i>	Two points control		
<i>No. of remote actuators for humidification/dehumidification control:</i>	2		
<i>Connected mode requirements:</i>	Must be paired with GWC2X856 (Home Gateway) The thermostat starts out in non-connected mode and maintains this operating mode until the ZigBee radio is activated by briefly pressing the front button (see instruction and use manual). It is recommended to wire the connection between the thermostat's output relay and the boiler (or the motorised zone valve which is to be controlled). Before app-based configuration (commissioning) is performed, it is possible to control the ambient temperature and control the boiler or motorised valve connected to the local relay. The user can also modify the required temperature (set point) via the local interface (buttons + display). The local temperature considered for the regulation is that measured by the local sensor in the thermostat (use of the external NTC temperature sensor, where applicable, for temperature compensation is defined during commissioning).		
<i>Compatible ZigBee actuators to be controlled by the thermostat via ZigBee to control the boiler and/or motorised valves:</i>	GWA1521	ON/OFF actuator – 1 potential-free channel	
	GWA1522	ON/OFF actuator – 2 channels with 230 V potential	
	GWA1523	ON/OFF actuator with power measurement - 1 channel with 230V potential	
	GWC2X859	Connected ON/OFF actuator with energy meter	
	GWA1301	Connected two-way switch module	
<i>Scenes limit:</i>	Max 16		
<i>Window sensors limit:</i>	Max 5		

CONNECTED ENERGY METER WITH LOAD CONTROL		
Code:	GWA1918	
Description:	Flush-mounting device with load control and power/energy measurement functions (single-phase voltage 100-240V AC 50/60 Hz, max measured current 70A min 0.05A). The device measures and monitors the electric consumption (power and energy consumed and produced) in a home or part of a building. Apart from monitoring consumption, it also has a load control function: it automatically disconnects electric loads to prevent the electric counter from tripping when the contract-defined threshold is exceeded, thereby avoiding problems for the user. The load disconnection and reconnection sequence can be set at the time of configuration via the app, based on priorities or absorption levels. The loads to be controlled must be commanded by ZigBee connected actuators: GWC20859 GWA1301, GWA1321, GWA1523, GWA1526, GWA1521 or GWA1522. The consumption data can be seen on the dedicated Home Gateway app, which can be downloaded from Play Store or App Store.	
Functions:	• Measurement of electric values • Control unit and load disconnection	
Link to documentation on website: GWA1918		
		
Technical specifications		
Power supply:	100 ÷ 240V AC, 50/60 Hz	
Absorbed power:	0.2W (100V AC)	
	0.36W (240V AC)	
Max. current:	85A	
Number of modules:	1	
Outdoor transmission radius:	100m	
The loads must be controlled by ZigBee connected actuators:	GWC20859	ON/OFF actuator with energy measurement
	GWA1301	Connected rocker two-way switch module
	GWA1321	Connected rocker dimmer module
	GWA1521	ON/OFF actuator – 1 potential-free channel
	GWA1522	ON/OFF actuator – 2 channels with 230 V potential
	GWA1523	ON/OFF actuator with power measurement - 1 channel with 230V potential
	GWA1526	ZigBee RF smart plug
Safety requirements for installation:	Install F6 13AH 250V ac fuse or install circuit breaker of max 6A on the line conductor to protect the device	
Limit of controllable remote loads:	Max 10	
Installation requirements for the current transformer (CT):	The current transformer must be installed so that the line cable is inserted in the CT on the side marked 'K'.	
	Maximum conductor CSA: 25 mm²	
	The current transformer must be connected to the GWA1918 meter, wiring it to terminals S1+ (red cable) and S2- (black cable).	

3. SYSTEM SPECIFICATIONS AND ARCHITECTURE

The System Pura system uses wireless connections based on the ZigBee standard protocol. Installing the Home Gateway allows the System Pura system to communicate with the house Wi-Fi network. The home router allows the system to communicate with the cloud, and therefore, with the app, giving the user access to all the smart functions offered by the System Pura system (scenes, monitoring of consumption, loads management, cloud/IoT integrations, voice commands integration, use of IFTTT applet).

NOTE: the Home Gateway - GWC2X856 uses the 2.4 GHz Wi-Fi band. As such, it cannot use 5 GHz Wi-Fi networks.



BASE FUNCTIONS

Basic functions such as light control, blinds, dimming, and temperature setting work immediately, even without system configuration.

SMART FUNCTIONS

Smart functions come into play via a simple app-guided commissioning once devices have been connected to your home Wi-Fi via the Home Gateway. Discover all the features of the GEWISS system: from advanced scenarios to consumption monitoring, from load management to full supervision, all easily managed through the app or voice assistants.

SMART HOME SPECIFICATIONS AND PERFORMANCE:

MAX NO. OF DEVICES ON NETWORK:	60
MAX. NO. OF STORED SCENES:	16
MAX NO. OF DEVICES IN A SCENE:	Unlimited
MAX NO. OF DEVICES IN A MULTICAST COMMAND¹:	Unlimited
RANGE (FREE AIR):	100m
MAXIMUM DISTANCE BETWEEN DEVICES:	Max 8 m
Wi-Fi CONNECTION:	2.4 GHz
INTERNET CONNECTION	Wi-Fi connection required both for system configuration and for use of the Home Gateway App
	Internet connection required both for system configuration and for use of the Home Gateway App ²

¹ **Multicast:** command sent to different devices of the same type which execute it simultaneously

² The use of portable routers is not recommended, as they do not guarantee optimum and consistent coverage.

4. CONFIGURATION

The Smart Home system is designed to be installed, configured and managed with the Home Gateway App, available for Android and iOS from the relative stores.

It is recommended to implement the 'traditional' functions of the system via wired connections (e.g. replicating controls of the same lighting device, connecting the repeating points via wire to the connected two-way switch, the thermostat wired to the boiler/motorised valve and so on) so that once the devices comprising the System Pura system have been installed, these functions can be used immediately even if the app-based configuration (commissioning) has not yet been performed.

For further information on installing the app and configuring a system via smartphone, refer to the guide contained in the section dedicated to the Home Gateway on the website, or scan the QR code below:



User Guide

5. FUNCTIONS

5.1 BASE FUNCTIONS

It is possible to configure the devices making up the Smart Home system via the Home Gateway App. The configurable parameters are divided into two broad categories: base functions and advanced functions.

The base functions which can be configured for the connected devices are described in the following chapters.

5.1.1. CONTROL OF LIGHTS AND ROLLER SHUTTERS

ON/OFF CONTROL OF LIGHTING DEVICES:

- ON/OFF/TOGGLE command
- Timed ON command (stair raiser light)

DIMMER CONTROL OF LIGHTING DEVICES:

- ON/OFF/TOGGLE command
- Timed ON command (stair raiser light)
- Lighting level control (0-100%)

CONTROL OF CURTAINS/ROLLER SHUTTERS/VENETIAN BLINDS:

- Up/down
- Position (0-100%)
- Louvre tilt (for Venetian blinds only)
- Slat opening-closing (only for roller shutters when closed)

5.1.2. CLIMATE CONTROL

The heating, cooling and climate control is made via the GWC2X859 connected thermostat. The thermostat also makes humidity measurement (viewable locally and via app), and it is possible to define (in the configuration) humidity threshold values based on which the thermostat can control (via ZigBee actuators) a dehumidification system. The GWC2X859 can manage the entire dwelling as a single zone, or multiple environments independently (multi-zone).

Single zone: One thermostat which directly controls the boiler.

Multi-zone: The same number of thermostats as the number of climate zones in the dwelling.
Each thermostat is connected to the zone solenoid valve.

5.1.3. SCENES

A scene allows multiple commands to be sent to different devices; the controls are executed simultaneously (e.g. "Exit home": switch off all lights and lower all roller shutters).

Scenes can be controlled either via app and via the system buttons (push-button panels, auxiliary inputs).

5.1.4. PROGRAMMED SCENES

The execution of the scenes (described in the previous paragraph) can be planned according to a weekly schedule (like the Timer function) or using the "astronomical clock" (e.g., switching utilities on or off at sunrise or sunset each day). It is also possible to set a time difference between the execution of the scenario and sunrise and sunset (times obtained using the astronomical clock), for a maximum value of one hour ($\pm 1h$).

5.1.5. SENSORS AND ALARMS

The Smart Home system can manage various types of alarms such as flooding alarm, gas leak alarm, smoke alarm, open window alarm etc. The alarm signals are generated by specific sensors. Gewiss offers a huge range of sensors which can be used; the codes for these are given in the table below.

Messages for the alarms detected by these sensors are displayed on the Home Gateway App.

The sensors which can be paired with the various alarm signals are as follows:

ALARMS AVAILABLE ON THE SYSTEM		
ALARM:	USABLE SENSORS:	HOW THE SIGNAL IS ACQUIRED:
Water leak	GWA1514	Acquired directly by Home Gateway via GWA1514 water sensor. Actuators are only required if, following the alarm signal, you wish to close the dwelling's WATER shut-off motorised valve.
Smoke	GWA1512	Acquired directly by Home Gateway via GWA1512 smoke sensor. Actuators are only required if, following the alarm signal, you wish to close a GAS shut-off solenoid valve or other actuators (e.g. fan activation).
Window open	GWA1513	Acquired directly by Home Gateway via GWA1513 window/door sensor
Motion	GWA1511; GWC2X858	Acquired directly by Home Gateway via GWC2X858 or GWA1513 connected motion sensor. Lights or other devices can be controlled via ZigBee actuators.
Weather	Any 'traditional' third-party sensor connected to the auxiliary input of any connected device.	Acquired using a conventional weather sensor, with the contact read via a connected of device auxiliary input. Only actions on roller shutters can be controlled: opening/closing of some or all shutters.
Loss of Cloud Connection	/	Alert generated by the cloud with notification in the app
General alarm	/	As for GAS leakage alarm. But the name of the alarm is not customisable.

5.2 ADVANCED FUNCTIONS

5.2.1. ENERGY MANAGEMENT

The Home Gateway App allows you to monitor the energy consumption and power draw of the entire dwelling or individual loads.

Entire dwelling: using the GWA1918 or GWA1916 energy meters, installed after the supplier meter, it is possible to view the power consumption and the energy consumption history by day, week, month and year.

If a solar PV³ system is connected to the dwelling:

- the power and energy measured by the energy meter installed downline of the grid connection point represent the net energy imported from the grid, net of the solar generation (e.g. if at a given point in time the total loads running in the dwelling are 2 kW and the solar energy production is 1 kW, the energy exchanges with the grid and therefore measured by the meter will be 1 kW).
- To measure the power and energy produced by the solar system, an additional GWA1918 or GWA1916 energy meter will need to be installed downline of the solar generation meter.

Individual loads: using actuators with GWC2X859 and GWA1526 energy meters and connected GWA1301 two-way switches, it is possible to view the power consumption of each individual load (if an energy meter has been installed) and the energy consumption log grouped by load type (lights, socket-outlets, other loads) by day, week, month and year. For loads used with the GWA1523 actuator, it is only possible to view the instantaneous power consumption.



Consumption figures are measured directly by the devices and sent to the cloud in real time without any local saving; as such, Internet connectivity dropouts cause the loss of data for the period in which the connection is missing, with consequent loss of data in the display of the consumption log.

5.2.2. ROUTINE

Through a routine, it is possible to associate the occurrence of one or more events (triggers) with the sending of a series of different commands in the ZigBee network. Among the commands that can be sent to the system, it is possible to choose the execution of a scenario. The events (conditions) that trigger the execution of a routine are defined during configuration via the App and can be chosen from four macro types:

- Change in status of one or more devices (ON/OFF)
- Time (time of day, sunrise or sunset based on the system's geolocation)
- Alarm from one or more sensors
- Environmental conditions (temperature, humidity, brightness, consumption)

The first type indicates a change in the status of a device, which can switch from ON to OFF and vice versa.

The second type allows you to associate the execution of a routine with a time-based event. There are two types of time-based events that can be selected: time or sunrise/sunset (astronomical clock). In the first case, a specific time is set at which the routine is executed. In the second case, the routine is executed at sunrise or sunset. The time of these two phenomena is obtained independently by the app from the astronomical clock. By selecting the latter option, it is also possible to delay or advance the execution of the routine, with respect to the time of sunrise or sunset, for a maximum of 60 minutes ($\pm 1h$).

The third type allows you to use the change of status of a sensor as a trigger.

Finally, by choosing environmental conditions, you can use a change in temperature or humidity, or brightness, or even choose exceeding a consumption threshold as a trigger.

You can choose to use only one of these events (conditions) as a trigger or create a combination of several. In the latter case, you must indicate whether the routine will be triggered by the occurrence of at least one of the selected events or whether all of these events must occur. You can select only one event for each of the four macro-types listed above.

The maximum number of commands that can be executed by a routine is 10.

³ PV stands for "Photovoltaic"

Routine	
What	When one or more events (conditions) occur, it associates the execution of one or more commands.
Conditions:	There are four main types: • Change in status of one or more devices • Time • Change in status of one or more sensors • Environmental conditions
Condition limits:	Max 1 event for each macro type
Commands:	Execution of one or more commands
Command limits:	Max 10

5.2.3. LIGHT ANTI-THEFT DEVICE

Within the routines, you can configure one called “Presence monitoring.” Using this routine, you can associate actions on devices with changes in the status of motion sensors and window sensors (triggers) and, finally, send an email notification.

5.2.4. TIMER THERMOSTAT FUNCTION

Using the Home Gateway App, it is possible to define the required temperature profile by setting the operation of the thermostat for each day of the week and for the entire week. Programming the daily temperature profile allows three different temperature ranges to be set (comfort, precomfort and eco). For each of these temperature ranges, the user has the possibility to assign the required target temperature (set point). It is possible to create further temperature ranges in addition to the three default ones. Programming of each day can be copied for the other days of the week, thus speeding up programming.

This function is executed in the cloud, and as such can be performed only with an Internet connection. In the event there is no connection to the cloud, the thermostat will still perform local temperature control, taking the last setpoint value received from the cloud as reference.



Consumption figures are measured directly by the devices and sent to the cloud in real time without any local saving; as such, Internet connectivity dropouts cause the loss of data for the period in which the connection is missing, with consequent loss of data in the display of the consumption log.

5.3 CLOUD PLATFORM INTEGRATION

The Smart Home can be integrated with the following cloud platforms.

AMAZON ALEXA

Integration with the Alexa platform allows the Smart Home to be controlled via voice controls, or to manage them via the Amazon Alexa app (Alexa routines) to integrate them with other third-party IoT objects and systems.

Configuration is performed via the Amazon Alexa app, using the skill dedicated to the Gewiss Smart Home named *"Gewiss Smart"*, which automatically imports the system configuration and does not require other operations.

Please note: the names given to the devices during configuration of the Smart Home (with Home Gateway App) must be used for the voice commands.

GOOGLE HOME

Integration with the Google platform allows the Smart Home to be controlled via voice controls, or to manage them via the Google app (Google routines) to integrate them with other third-party IoT objects and systems.

Configuration is performed via Google's Google Home app, using the library dedicated to the Gewiss Smart Home named *"Gewiss Smart"*, which automatically imports the system configuration and does not require other operations.

Please note: the names given to the devices during configuration of the Smart Home (with Home Gateway App) must be used for the voice commands.

IFTTT

Integration with the IFTTT platform allows integrations to be created between the Gewiss Smart Home and other IoT devices present on the IFTTT platform (physical devices such as domestic appliances, smartphones and utility applications such as Google Calendar, Telegram etc.).

6. AUXILIARY INPUTS OF CONNECTED DEVICES

6.1 DESCRIPTION

The auxiliary inputs can be used to replicate the local control of the connected devices to which they belong, or to send ZigBee commands or statuses. Configuration of the auxiliary inputs is performed via the Home Gateway App.

The commands which can be associated with an auxiliary input (during configuration) are:

- Control of a local load
- Sending of ZigBee commands:
 - ON/OFF/TOGGLE command
 - Timed ON command (stair raiser light)
 - Wired sensor status (binary 0/1)
 - Control of curtains and roller shutters with single or double push-button
 - Dimmer control with single or double push-button
 - Alarm
 - Scene command
- Reading of ZigBee sensor status:
 - Gas sensor
 - Motion sensor
 - Weather alarm sensor
 - Other sensor (any type of sensor, connecting the output contact to the input)

The readings taken by the sensors listed above can be notified on the App and/or Smart Plate.

The following table contains details of the number of auxiliary inputs which the different connected devices are equipped with.

AUXILIARY INPUTS		
CODE	DEVICE NAME	NO. OF AUX. INPUTS
GWC2X859	Connected 1-channel on/off actuators with power meter	1
GWC2X858	Connected movement sensor	2
GW1301	Connected rocker two-way switch module	2
GWA1321	Connected rocker dimmer module	2
GWA1331	Connected rocker roller shutter module	2
GWA1341	Connected 2-command rocker module	2
GWA1361	Connected 1-command rocker module	2

6.2 DESCRIPTION OF FUNCTIONS WHICH CAN BE ASSOCIATED WITH THE AUXILIARY INPUTS

Configuration of the auxiliary inputs must be made in accordance with the control device being connected to them:

- **Switch:** controls a single device or a group of homogeneous devices (all lights etc.)
- **Button:** controls a single device or a group of homogeneous devices (all lights or all roller shutters etc.), or a scene
- **Sensor:** it is possible to choose between four different types of sensors:
 - **Motion sensor**
 - **Weather alarm sensor**
 - **Generic sensor**
 - **Gas sensor**

Depending on the type of sensor chosen, certain devices and not others can be associated.

6.3 FACTORY CONFIGURATION

In their factory configuration, the devices have the auxiliary inputs set to replicate the local command. Only by configuring the auxiliary inputs via the Home Gateway App will it be possible to use them to send ZigBee commands or statuses.

To reset the devices to their factory defaults, it will be necessary to press and hold the button to open the ZigBee network for over 10 seconds. Refer to the user manuals to locate the button on the individual devices.

7. BATTERY SENSORS

Initial system configuration (commissioning): it is strongly recommended that the battery sensors are joined to the ZigBee network one at a time, after inserting all grid-powered devices.

Please note: if a battery device is not new with factory settings, meaning that it had been joined to another system, this must be reset before proceeding with commissioning of the new system.

Battery state of charge: this can be viewed by bringing up the battery device page in the Home Gateway App (“**Manage the home**” → “**Rooms and devices**” → select the room in which the battery device has been installed → click on the battery device): the battery charge level is shown in the “*Information*” section.

8. ECO CONNECTED 4-COMMAND PUSH-BUTTON PANELS MODULE – ZIGBEE

Initial system configuration (commissioning): it is strongly recommended that the push-button panels are joined to the ZigBee network only after inserting all grid-powered devices.

The push-button panels are bound (for the purposes of signal repeating) to the powered devices (routers) closest to it at the time of configuration; as such, if the push-button panel is to be used at a distance excessively far from the 'router' devices where it was located in the configuration phase, the signal could be too weak and as a consequence the commands might not reach the furthest devices.

Actuators that cannot be controlled from the module: the 4-command push-button panel cannot be used to control the following actuators: GWA1521, GWA1522, GWA1523, GWA1526, GWA1531, and the local relay of the GWA1916.

9. INSTALLATION

9.1 DISTANCES

In the design and installation of the system, it is essential to keep in mind the distances between the various ZigBee devices, because this will have an influence on the quality of the signal and on the effectiveness of the communication between the devices.

DISTANCES	
INDOOR:	8m
<i>Notes:</i>	The distance given here is approximate. The following factors must also be considered in the calculations: • Thickness of internal walls • Internal wall material • Use of shielding materials • Presence of devices which could generate interference it is always good practice to carry out tests in advance to determine the maximum effective achievable distance in the specific building in which the system will be installed.
OUTDOOR:	100m
<i>Notes:</i>	This distance is a free-field value, that is without any elements which could limit, disturb or impede the propagation of the radio signal.

9.2 INSTALLATION NOTES

Distribution of ZigBee devices in the system – avoid “funnel”-type distributions:

The ZigBee devices will be distributed in the system (in the different rooms and floors) based on system requirements.

Nevertheless, on the basis of the operation of ZigBee networks (mesh networks), it is important to ensure that there are no “funnel”-type distribution situations, in other words two groups of devices isolated from each other with only one mains-powered device between the two groups: in this case, the device between the two groups (funnel) could create communication limits between the two groups of devices because it would find itself repeating all the packets exchanged between the two groups by itself.

This “funnel” type situation in systems with a normal structure of rooms and floors is unlikely, but should it unavoidably occur, it is recommended to evaluate the addition of one or more mains-powered devices in the vicinity of the single device located in the “funnel” area. In any case, should any doubts arise we suggest you contact Gewiss technical support.

Initial System Configuration (commissioning):

- It is strongly recommended that the battery sensors are joined to the ZigBee network one at a time after inserting all grid-powered devices.
- it is strongly recommended that “ECO connected 4-command push-button panels” are joined to the ZigBee network only after inserting all grid-powered devices.

The push-button panels are bound (for the purposes of signal repeating) to the powered devices (routers) closest to it at the time of configuration; as such, if the push-button panel is used at an excessive distance from these, the signal could be too weak, and the commands would not reach the destination devices.

10. FIRMWARE UPDATE

The firmware of the individual devices making up the Smart Home system can be updated via the app. The new firmware versions are made available by Gewiss via the Internet connection. New firmware versions are generally released to solve malfunctions, and less frequently to introduce new functions. It is therefore recommended to periodically check whether new firmware versions are available and to update consequently. If an update is important, it will be pushed by Gewiss.

As mentioned, it is possible to update the firmware via the Home Gateway App, but before starting the update, ensure that the devices involved are correctly powered and that the power supply will not be interrupted during the update process. During the update, the system will continue to function. Bear in mind that updating of the individual devices could take up to 45 minutes to successfully complete.

NOTES:

- To update battery devices, they will need to be woken up. Without waking them up, the update procedure cannot be started. It is possible to wake up battery devices from the app, by opening the right menu, selecting **“Manage the home”**, selecting **“Rooms and devices”**, clicking on the room where the device is located. On the device configuration page, you will find the **“Reactivate”** button which will allow you to wake up the device.
- During system commissioning, if the firmware of the gateway is obsolete, the Home Gateway App itself will request that you perform an update before continuing with the subsequent commissioning phases.

11. LEGACY ZIGBEE DEVICES COMPATIBLE WITH SMART HOME

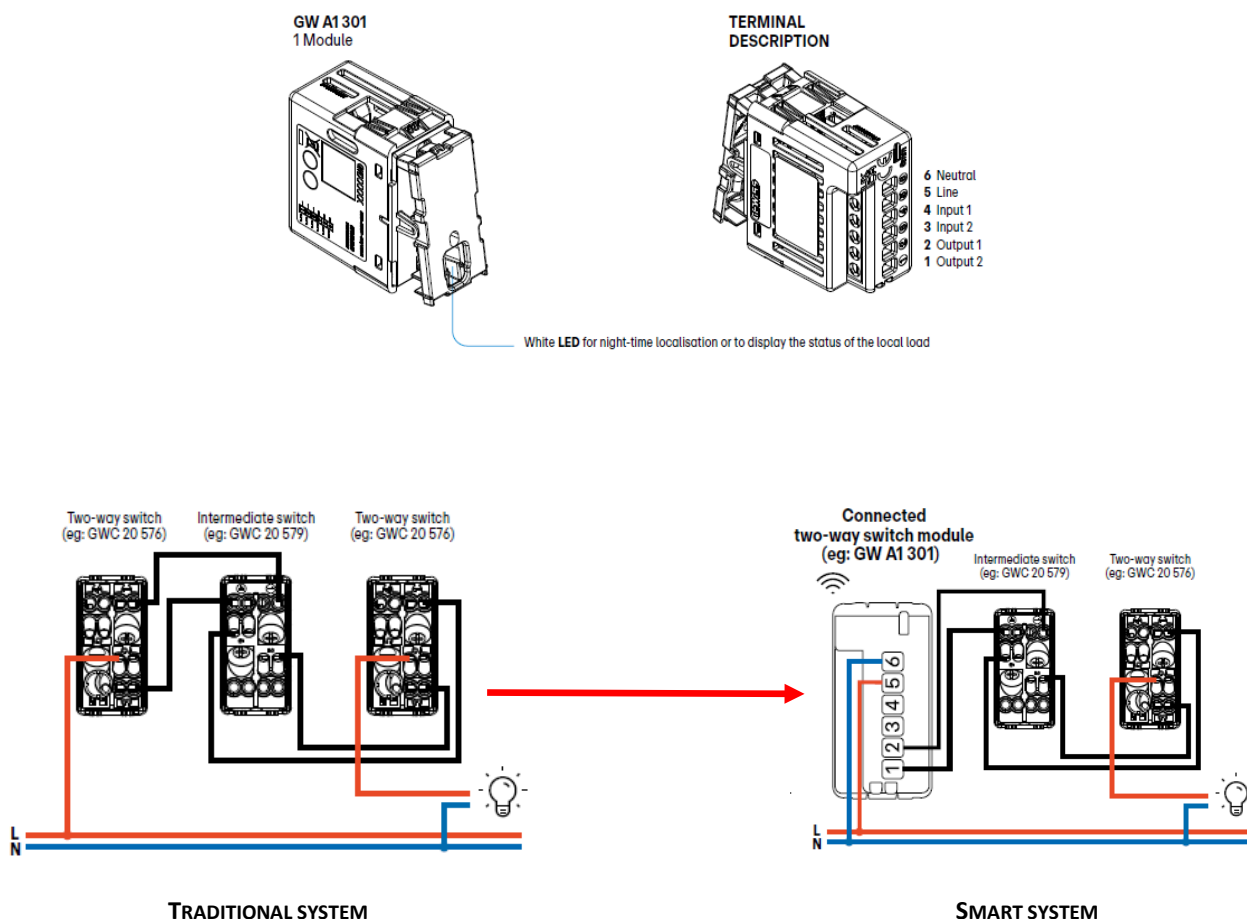
All pre-existing ZigBee devices (GWA1502, GWA1511, GWA1513, GWA1514, GWA1521, GWA1522, GWA1523, GWA1531, GWA1526), are already compatible and can be used in the Smart Home ecosystem. They can therefore be managed and configured with the Home Gateway App.

12. APPLICATION EXAMPLES – CONNECTION DIAGRAMS

This chapter contains a series of example connection diagrams which can be used, by way of example, to understand how to design your own system.

12.1 TRANSFORMING AN EXISTING SYSTEM INTO A SMART SYSTEM: CONNECTED ROCKER TWO-WAY SWITCH MODULE

The two inputs of the connected rocker two-way switch module can be connected to NO contacts (e.g. auxiliary modules, conventional buttons and switches, sensors) and be used independently of each other to replicate the local load control or to send generic ZigBee commands or statuses to the system (e.g. ON/OFF, scenes). Their functions are set during the configuration phases.

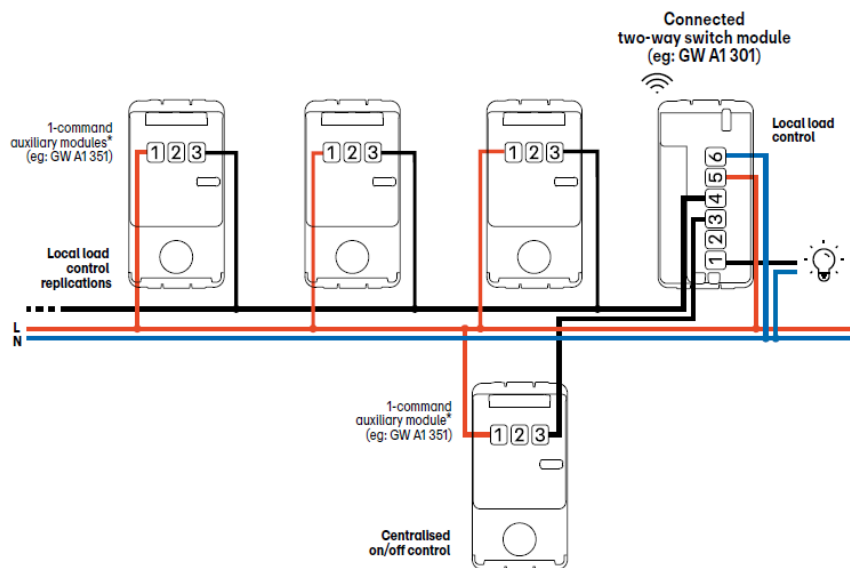


12.2 LIGHT CIRCUIT CONTROLLED BY FOUR POINTS WITH CENTRALISED OFF COMMAND: CONNECTED ROCKER TWO-WAY SWITCH MODULE

Connection example to create a lighting circuit controlled from 4 points, with the addition of a centralised* OFF command.

** Alternatively, the command can be configured to send any ZigBee command (scenes, lights ON/OFF, dimmer etc.)*

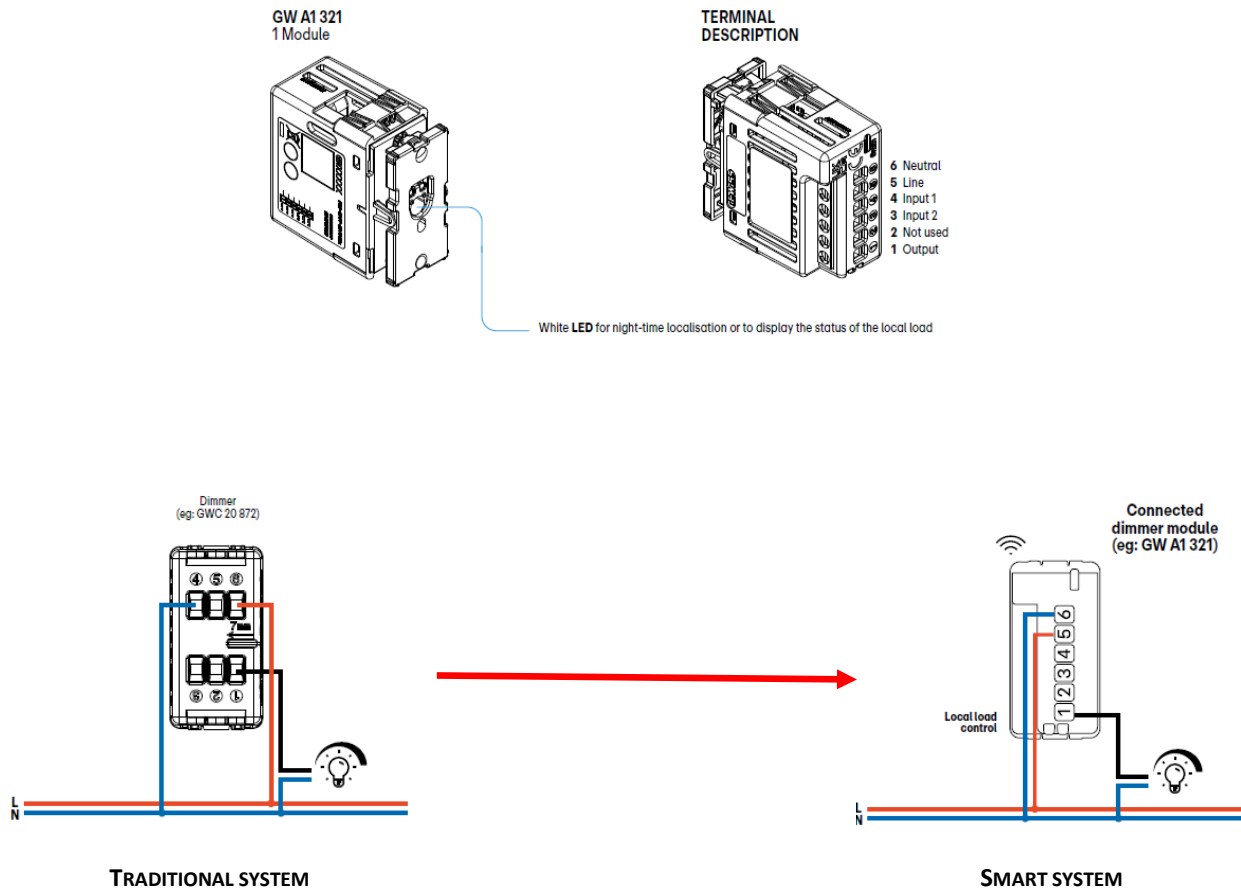
When creating new systems, the use of the auxiliary inputs to replicate the local command or carry out ZigBee commands allows for significant simplification of all wiring operations and optimisation of the number of components, thus reducing system cost.



12.3 TRANSFORMING AN EXISTING SYSTEM INTO A SMART SYSTEM: CONNECTED ROCKER DIMMER MODULE

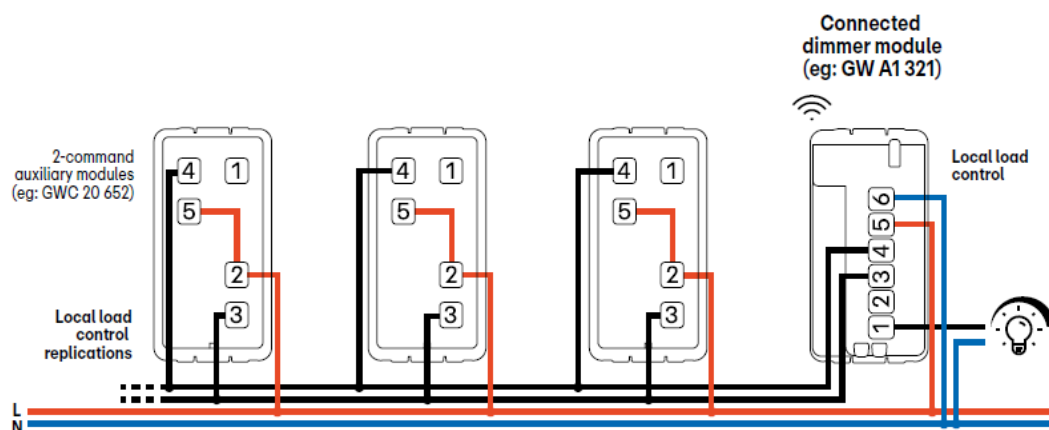
Connection example to transform an existing traditional system into a smart system or for the creation of a new system.

The two inputs of the connected rocker dimmer module can be connected to NO contacts (e.g. auxiliary modules, traditional buttons and switches, sensors) and be used in pairs to replicate the local lighting load control or to send generic ZigBee commands or statuses to the system (e.g. ON/OFF, dimmer, shutters, scenes), or separately, with one of the two inputs, to replicate the command for local load control and the other input to send a generic ZigBee command or status to the system. Their functions are set during the configuration phases.



12.4 CONNECTION DIAGRAM: MULTI-POINT LIGHTING COMMAND AND CONTROL

Example of lighting load command and control of a from multiple points.

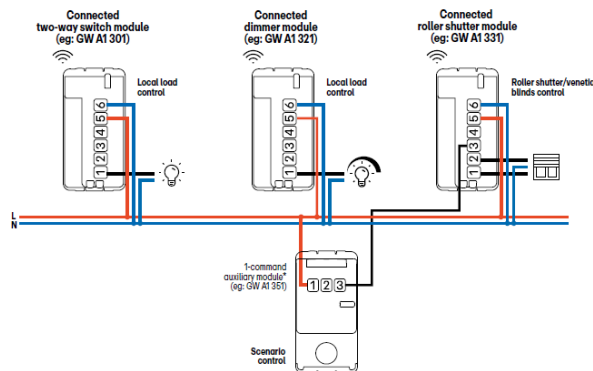


12.5 EXIT HOME SCENE COMMAND TO TURN OFF LIGHTS AND CLOSE SHUTTERS/VENETIAN BLINDS: AUXILIARY MODULE

Example of creating an exit home scene, to turn off the lights and close shutters/Venetian blinds, using a 1-command auxiliary module*.

** To create the scene command, it is also possible to use connected 2-command rocker module (e.g. GWA1341) and/or ECO push-button panels (e.g. GWA1391).*

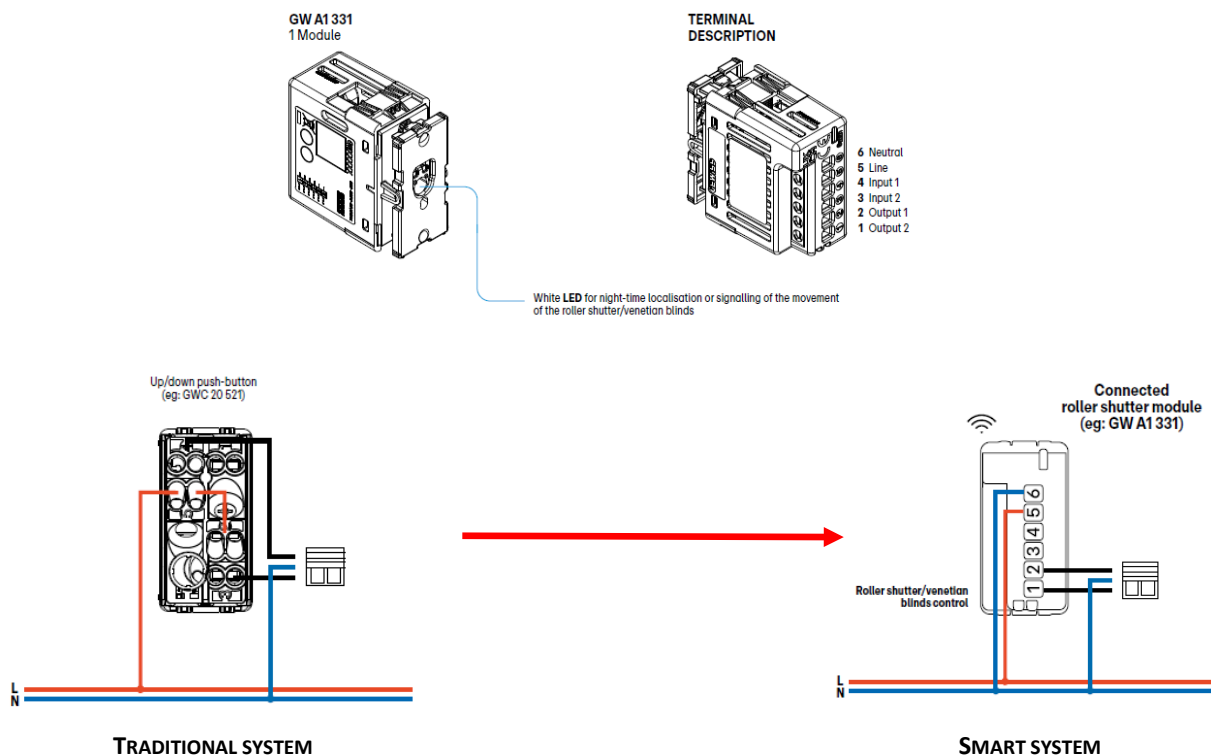
The auxiliary commands used to duplicate or centralise the control of the lighting loads do not necessarily have to connect to the connected dimmer modules which manage the loads but can be connected to the two auxiliary inputs of any smart device in the system.



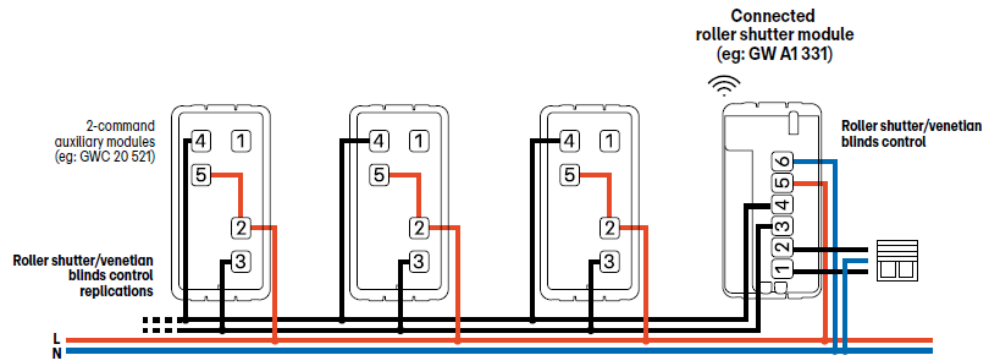
12.6 TRANSFORMING AN EXISTING SYSTEM INTO A SMART SYSTEM: CONNECTED ROCKER ROLLER SHUTTER MODULE

Connection example to transform an existing traditional system into a smart system or for the creation of a new system.

The two inputs of the connected rocker roller shutter module can be connected to NO contacts (e.g. auxiliary modules, traditional buttons and switches, sensors) and be used in pairs to replicate the control of the roller shutter/Venetian blind or to send generic ZigBee commands or statuses to the system (e.g. ON/OFF, dimmer, shutters, scenes), or separately, with one of the two inputs, to replicate the command for control of the electric motor and the other input to send a generic ZigBee command or status to the system. Their functions are set during the configuration phases.



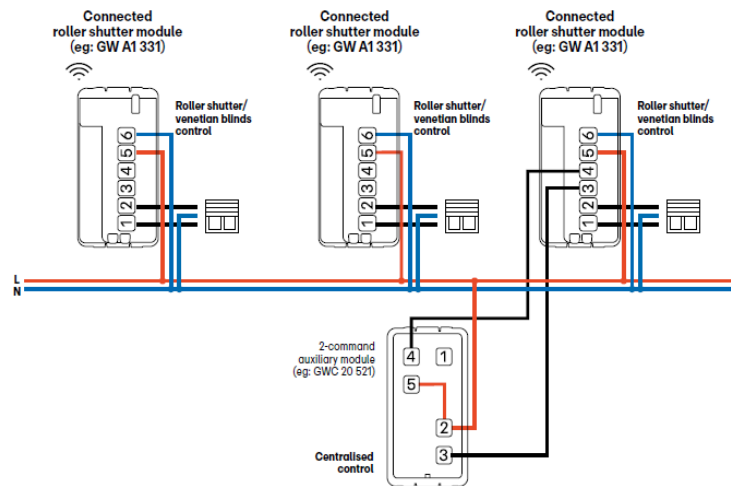
12.7 CONNECTION DIAGRAM FOR CONTROL FROM MULTIPLE POINTS OF ONE ROLLER SHUTTER/VENETIAN BLIND



12.8 CENTRALISED CONTROL OF A GROUP OF ROLLER SHUTTERS/VENETIAN BLINDS

Centralised raising/lowering control of a group of roller shutters/Venetian blinds

The auxiliary commands used to duplicate or centralise the control of the roller shutters/Venetian blinds do not necessarily have to connect to the connected modules which manage the shutters/blinds but can be connected to the two auxiliary inputs of any smart device in the system.

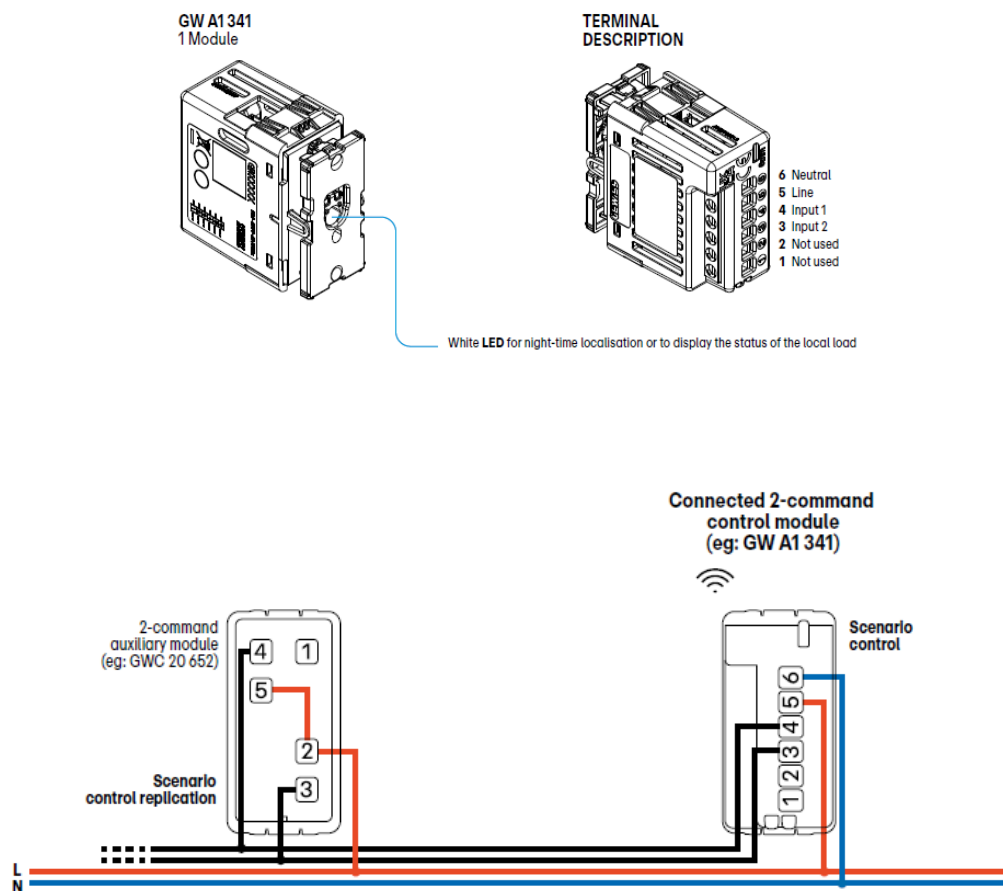


12.9 CONNECTION DIAGRAM: CONNECTED 2-COMMAND ROCKER MODULE

Connection of the connected 2-command rocker module to perform two scenes (input and output) from two distinct points.

In the diagram shown it is possible to use a 2-command auxiliary module (e.g. GWC20652) or, alternatively, 1 command auxiliary modules (e.g. GWA1351), connected either to input 1 or input 2.

The two inputs of the connected 2-command rocker module can be connected to NO contacts (e.g. auxiliary modules, conventional buttons and switches, sensors) and be used independently of each other to send generic ZigBee commands or statuses to the system (e.g. ON/OFF, scenes). Their functions are set during the configuration phases.

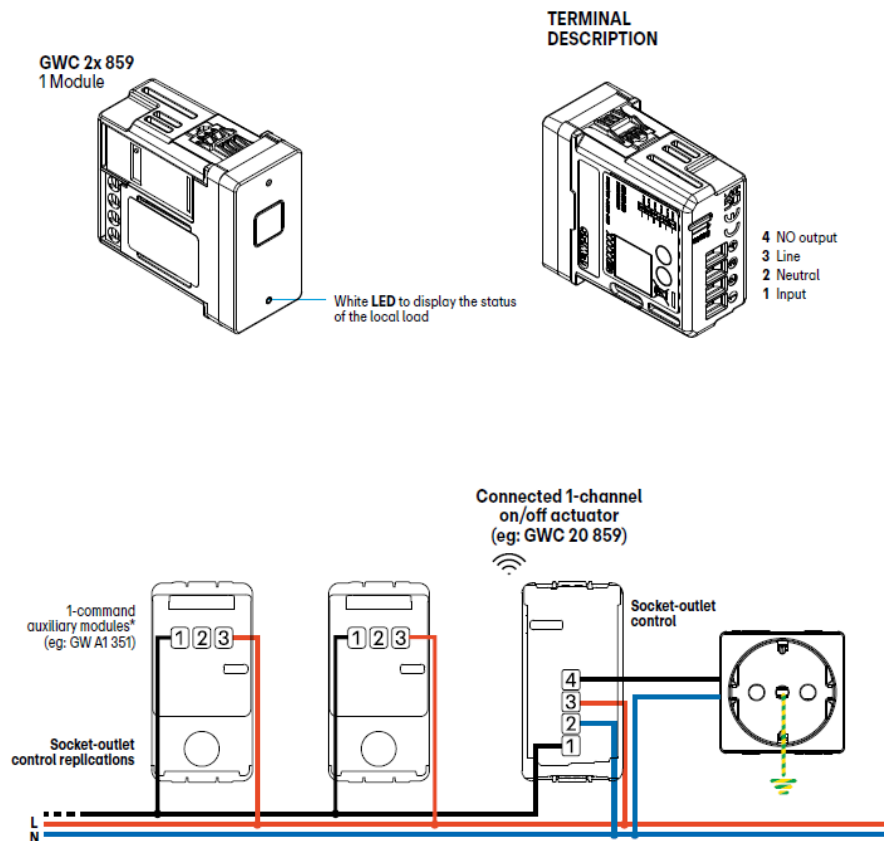


12.10 CONNECTION DIAGRAM: CONTROLLED SOCKET-OUTLETS

Connection of the connected 1-channel on/off actuator to a power outlet to turn it into a controlled socket-outlet.

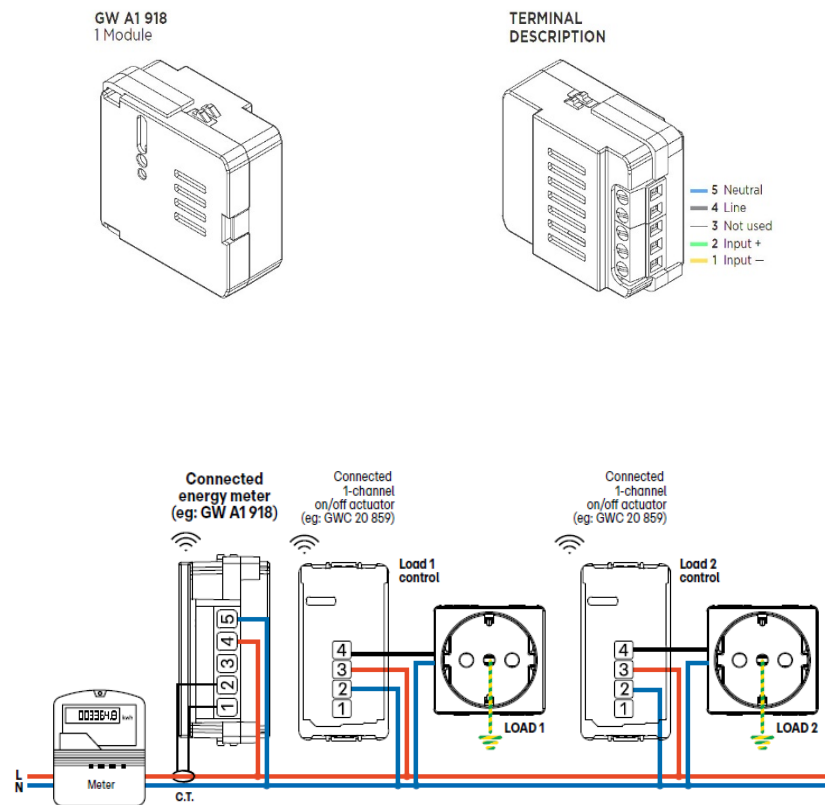
In the diagram shown, the input of the connected 1-channel on/off actuator can be used to connect one or more 1 command auxiliary rocker modules in parallel (e.g. GWA1351) and configure them to replicate the local load control.

The input of the connected 1-channel on/off actuator can be connected to NO contacts (e.g. auxiliary modules, traditional buttons and switches, sensors) and be used to replicate the local load control or, alternatively, to send a generic ZigBee command (e.g. ON/OFF, dimmer, shutters, scenes) or status to the system. Its function is set during the configuration phases.



12.11 CONNECTION DIAGRAM: CONNECTED ENERGY METER

Connection of the connected energy meter to measure the draw of the single-phase line and control the connected actuators in the system to control the loads.

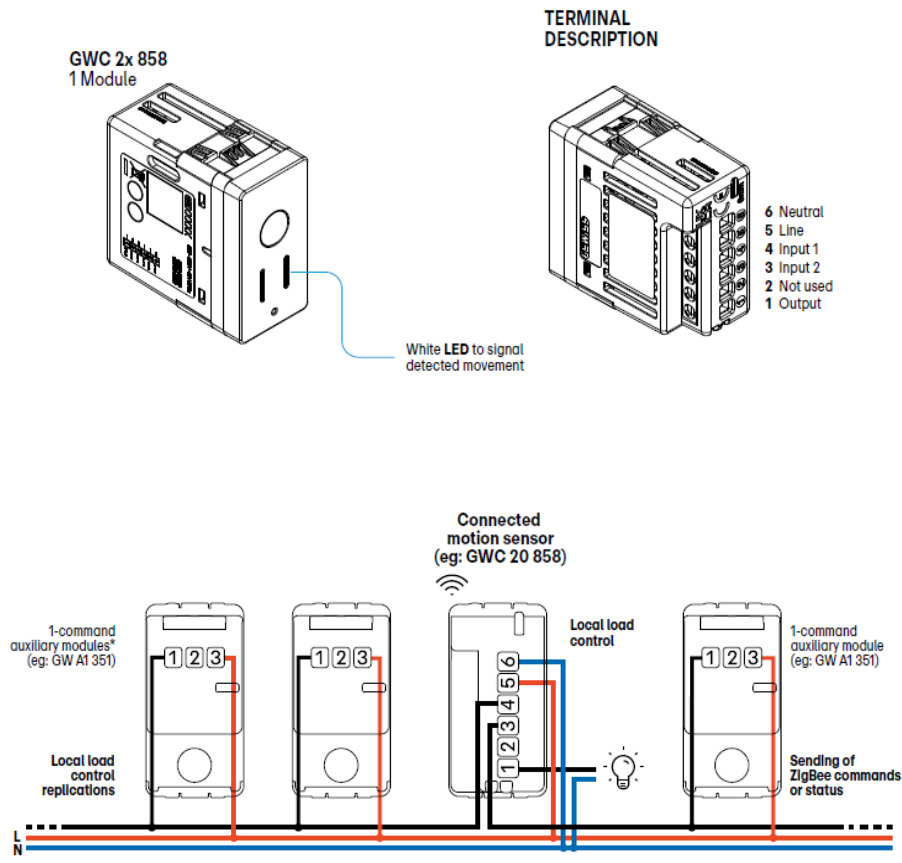


12.12 CONNECTION DIAGRAM: CONNECTED MOTION SENSOR

Connection of the connected motion sensor to manage a lighting load with the addition of the local command in two points.

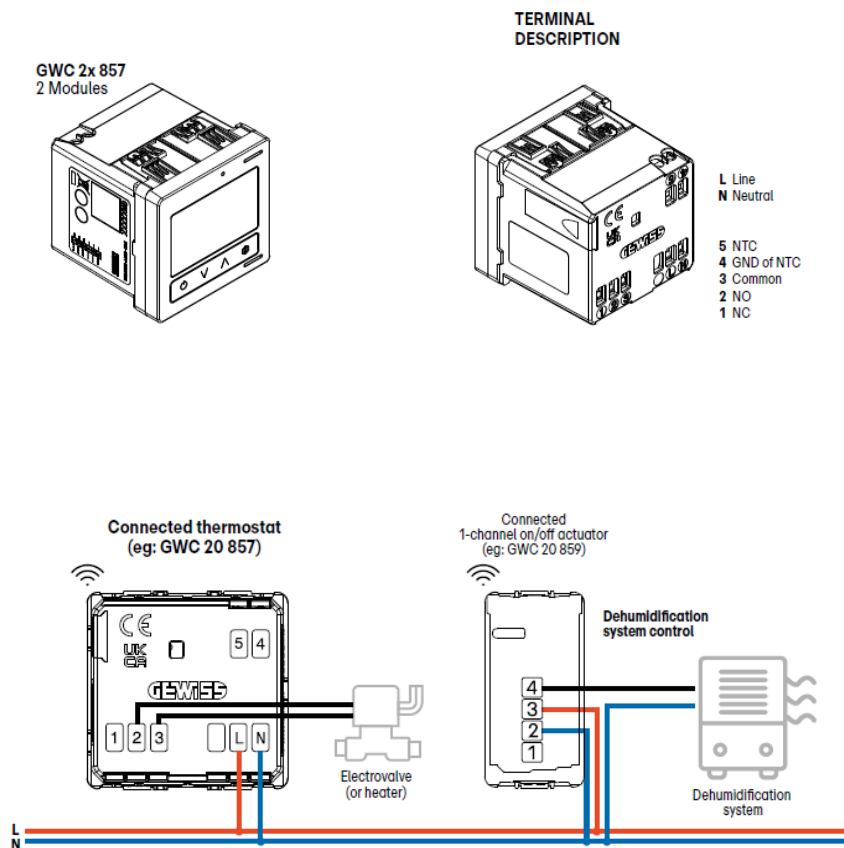
In the diagram shown, input 2 of the connected motion sensor can be used to connect one or more 1 command auxiliary modules in parallel (e.g. GWA1351) and configure them to send a generic ZigBee command or status to the system (e.g. ON/OFF, scene).

The two inputs of the connected motion sensor can be connected to NO contacts (e.g. auxiliary modules, conventional buttons and switches, sensors) and be used independently of each other to replicate the local load control or to send generic ZigBee commands or statuses to the system (e.g. ON/OFF, scenes). Their functions are set during the configuration phases.



12.13 CONNECTION DIAGRAM: CONNECTED THERMOSTAT

Connection of the connected thermostat to control the motorised zone valve via the relay output and a dehumidification system via a connected 1-channel on/off actuator.



13. FAQ

The Home Gateway App offers a frequently asked questions section where you can find information on managing the system, using the app, and troubleshooting for some of the most common problems you are likely to encounter with your system.

HOW CAN I DELETE A USER FROM THE SYSTEM?

There are three types of users: guest, administrator and installer. Administrator and installer users can delete other users from the **“Manage users”** page: click on the waste basket to the right of the user's name.

Administrator users can disable installer users without deleting them.

CAN THE INSTALLER WORK ON THE SYSTEM REMOTELY?

Yes, the installer can make interventions on the system as regards all configurations or actions not requiring a physical action on the system devices. For this to be possible, installers must be enabled.

IS IT POSSIBLE TO UPDATE THE SYSTEM?

All devices in the system, apart from the Home Gateway, can be updated. There is a dedicated section in the Home Gateway App. Select **“Manage the home”**, then **“Updating the devices”**: on this page it is possible to check which updates are available and decide which to run.

HOW CAN I KNOW IF THE HOME GATEWAY WAS DISCONNECTED FROM THE NETWORK?

Every time the Home Gateway is disconnected from the network (and then reconnects), a notification is shown on the app. Check the **“Notifications”** page on the app.

IN THE EVENT OF A MALFUNCTION WITH THE HOME GATEWAY, IS THE SYSTEM CONFIGURATION LOST?

By contacting Gewiss technical support it is possible to recover the system configuration and reproduce it on the new Home Gateway.

IS IT POSSIBLE TO INTEGRATE THIRD-PARTY DEVICES IN THE SMART HOME SYSTEM?

Check the list of compatible devices on the GEWISS website.

IS IT POSSIBLE TO CHECK THE STATUS OF A DEVICE WHICH IS PART OF THE SYSTEM REMOTELY?

The dashboard of the Home Gateway App allows you to check the status of any device in the system.

HOW CAN YOU DELETE A DEVICE THAT WAS ADDED BY MISTAKE?

It is always possible to delete a device which is part of the system by selecting **“Manage the home”**, then **“Rooms and devices”**, the room containing the device you wish to delete, select the device to delete, scroll down and click on **“Delete device”**.

WHAT IS THE MAXIMUM DISTANCE BETWEEN A DEVICE AND ITS AUXILIARY?

The maximum wired distance is 50 metres.

IF I BREAK A BUTTON ON AN AUXILIARY INPUT, WILL THIS LEAD TO LOSS OF THE ASSOCIATED FUNCTION?

Simply replace the button with a new one in order to continue using the associated function.

HOW CAN I RECOVER CONFIGURATIONS IN THE EVENT OF A DEVICE BREAKING?

Most of the System Pura range of devices contain the **“Replace device”** option on their details page. Run this guided procedure to replace a device without losing the functions configured with the previous device.

FAILURE TO RECEIVE PUSH NOTIFICATIONS EVEN FOLLOWING ACTIVATION

To receive system notifications such as warnings, badges etc. you need to have consented during configuration of the app. If not, enabling push notifications in the “**Manage notifications**” menu will not have any effect.

HOW DO YOU MANAGE THERMOSTAT PROGRAMMING?

Using the “**Programming**” function of the Home Gateway App it is possible to create weekly programming. This will be saved on the cloud and used by the thermostat.

Punto di contatto indicato in adempimento ai fini delle direttive e regolamenti UE applicabili:
Contact details according to the relevant European Directives and Regulations:
GEWISS S.p.A. Via D.Bosatelli, 1 IT-24069 Cenate Sotto (BG) Italy tel: +39 035 946 111 E-mail: qualitymarks@gewiss.com

According to applicable UK regulations, the company responsible for placing the goods in UK market is:
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+39 035 946 111
8:30 - 12:30 / 14:00 - 18:00
lunedì - venerdì / monday - friday



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