

General characteristics

A modular range of devices for domestic and similar use which can be installed in surface- or flush-mounting boxes and in ordinary and watertight boxes.

The System range for domestic use has a modular structure on flush-mounting frames up to 12 modules. Surface-mounting and free-standing boxes and plates are included, along with watertight plates (IP55) and outdoor containers (IP40 and IP55).

The range includes controls, socket-outlets, protections, indicators, connectors and special components with high quality characteristics.

				EFERENCE STANDA	INDJ			
		Ess	ential electrical d	ata*	Prolonged	Resistance to abno	rmal heat and fire	
Component	Reference standards	Resistance at test voltage (V)	Insulation resistance (ΜΩ)	Breaking capacity or category of use	operation (no. position changes)	Thermo-pressure with ball (°C)	Glow wire test (°C)	
Commands	CEI 23-9 EN 60669-1			1.25 In (200 position changes)	40,000 at In 250V AC cos φ= 0.6			
Socket-outlets	CEI 23-50 IEC 60884-1		_		10,000 at In 250V AC cos φ= 0.8		850	
Latching relays	CEI 23-9/CEI 23-62 EN 60669-1/EN 60669-2-2	2000 at 50 Hz		50,000 at In 250V AC	125			
Momentary relays	CEI 23-9/CEI 23-62 EN 60669-1/EN 60669-2-2	for 1 minute		1.25 In (200 position changes)	cos φ= 0.6		555	
Miniature circuit breakers	CEI 23-3 EN 60898-1		2** F	3 kA	8,000			
Residual current circuit breakers	CEI 23-44/CEI 23-42 EN 61009-1/EN 61008-1		2** - 5		4,000			
Supports and plates	CEI 23-9 EN 60669-1	-	-	-	-	70	650	

^{*} For rated voltages and currents, see the specifications in the single codes. ** The value of 2 MΩ refers to a special condition established by the standards given alongside.

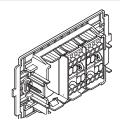
	BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS											
Agent	t Saline		Saline Acids		Bas	Bases		Solvents				UV
Component	Water	solution	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Ethyl alcohol	oil	rays
Plates	Resistant	Resistant	L <mark>imited</mark> resistance	Resistant	Resistant	Resistant	L <mark>imite</mark> d resistance	Not resistant	Not resistant	Not resistant	L <mark>imited</mark> resistance	Resistant
SYSTEM devices	Resistant	Limited resistance	Not resistant	L <mark>imited</mark> res <mark>ista</mark> nce	Limited resistance	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant

 $^{^{\}star}$ The resistance values given are valid for an ambient temperature no higher than 40 $^{\circ}\text{C}.$

Terminal resistance to cable traction: > 50N Device hold on support: > 0.6J

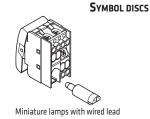
TERMINAL TIGHTENING CAPACITY							
Flexible	e wires	Rigid wires					
Minimum	Maximum	Minimum	Maximum				
0.75mm ²	2 x 4mm ²	0.5mm ²	2 x 2.5mm ²				

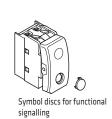
Common construction features



Quick installation: fixing the devices on the supports from both front or rear.

Simplicity of connections: double terminals, cable clamp with unlosable screws and protection collars.







Degree of protection of the set of SYSTEM domestic range assembly installed

COMPONENT	INSTALLATION	REFERENCE STANDARD	IP RATING
Devices with closed front (commands, bells, indicators, etc.) installed in flush-mounting boxes, surface-mounting boxes, free-standing panels (completed with support and plate) and in self-supporting boxes	Flush-mounting for domestic or similar finish, in vertical position, installed to a high standard		41
Devices with open front (socket-outlets, etc.) installed in flush-mounting boxes, surface-mounting boxes, free-standing panels (completed with support and plate) and in self-supporting boxes	Flush-mounting for domestic or similar finish, in vertical position, installed to a high standard. Suitable for use for zone 3 of rooms containing baths or showers.	EN60529 (CEI 70-1)	X1 (it is 21 in case of socket-outlets)
Devices with open front (socket-outlets, etc.) installed in flush-mounting boxes, surface-mounting boxes, free-standing panels (completed with support and plate) and in self-supporting boxes	Flush-mounting for domestic or similar finish, in vertical position, installed to a high standard with plug inserted		4X

ACCESSORIES

Spare parts and accessories

Lamps for System articles

CONTROL DEVICES			S GEWIND S	МІ	NIATURE LAMP UN	ITS	Luminous / colour RESULT	OBTAINABLE COLOURS
Functional	Functional	Iconographic	Туре	Code	Voltage	Colour		
	localisation	signalling		GW 10 893	12-24V AC/DC	White		White
			LED	GW 30 947	230/110V AC	vviiite	The signalling colour corresponds	vvnite
	0.00	-		GW 30 946	230/110V AC	Light blue	to the colour of	Light blue
00			Fluorescent	GW 30 943	230V AC	Red	the chosen miniature lamp	Red
			ridorescent	GW 30 944	230V AC	Green		Green
PUSH-I	BUTTON WITH NAMI	E PLATE			CARTRIDGE LAMPS	i	Luminous / colour RESULT	OBTAINABLE COLOURS
			Туре	Code	Voltage	Colour		
			Incandescent	GW 20 902	12V AC/DC	\A/I-!+-	\A\l\ _{\begin{subarray}{cccccccccccccccccccccccccccccccccccc	White
			S6 x 36	GW 20 903	24V AC/DC	White	White backlighting	vviiite
SINGLE INDICATOR LAMPS					CARTRIDGE LAMPS	i	Luminous / colour RESULT	OBTAINABLE COLOURS
			Туре	Code	Voltage	Colour		
			Incandescent	GW 20 904	12V AC/DC	White	The signalling colour corresponds to the colour of the chosen indicator	Red - Green Amber - White
			S6 x 31	GW 20 905	24V AC/DC		lamp diffuser	Light blue
							With red diffuser:	Red
			Fluorescent S6.3 x 28	GW 20 906	230V AC	Red	With amber diffuser:	Amber
				GW 20 908		Green	With green diffuser:	Green
STAIR RISER LAMPS					CARTRIDGE LAMPS	i	Luminous / colour RESULT	OBTAINABLE COLOURS
			Туре	Code	Voltage	Colour		
		Incandescent	GW 20 902	12V AC/DC	White	The signalling colour corresponds to the colour of the chosen stair riser	Red - Green Amber - White	
		S6 x 36	GW 20 903	24V AC/DC	VVIIILE	lamp diffuser	Amber - White Light blue	

Examples of functional and localisation lighting To indicate the operating status of services not visible from the command position The indicator lamp is located parallel to the service, and is switched on when the one-way switch is OR. The indicator lamp is located parallel to the service, and is switched on when the one-way switch is OR. The indicator lamp is switched on when the one-way switch is OR. The indicator lamp is switched on when the one-way switch is OR. The indicator lamp is switched on when the one-way switch is OR. With the one-way switch in the on



COMMAND

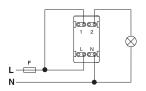
Infrared movement detector

The passive infrared movement detector senses temperature variations within its range of action and, depending on the environmental light, closes a relay contact. When movement stops, the contact automatically opens again after an adjustable set time. The device incorporates a light-sensitive sensor with an adjustable tripping threshold to avoid controlling the service (e.g. lighting equipment) when not necessary.



adjustment Tripping light threshold System: GW 20 821 - GW 21 821 adjustment Playbus: GW 30 121

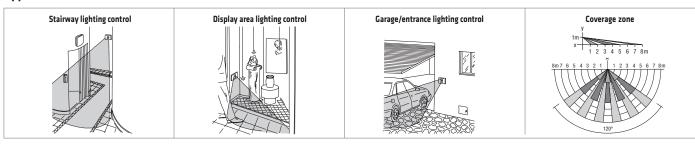
Connection diagram



DATI TECNICI						
Power supply voltage	230V - 50/60Hz					
Light-sensitive threshold setting	10 lux - max. inhibited					
Activation duration setting	15 sec / 10 min					
Output contact	1 NA 3A (AC1) 250V ac, potential-free					
Type of load:						
Resistive loads	700W					
Incandescent lamps	450W					
Low voltage halogen lamps (12V)	450W					
Uncompensated fluorescent lamps	2x58W					
Motor and motor reduction units	400VA					
Operating temperature	-5 / + 40 °C					
Relative humidity	max. 93% non condensative					

Not suitable for compensated fluorescent lamps, for discharge lamps and for those loads not indicated; please use an auxiliary relay to control such lamps.

Applications



Relay

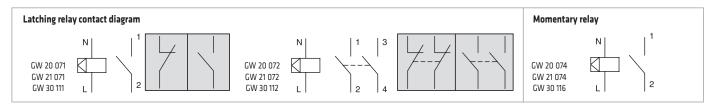
Latching relay

buttons with NO contact.

Momentary relay

Latching-type relay for controlling lamps from several points using push- For executing automatic mechanisms or separations between the control circuit and the power circuit. Can be used as an auxiliary element for controlling particular loads.

	LATCHIN	G RELAY		MOMENTARY RELAY				
System: GW 20 071		Reference standards: EN 60669-1; EN 60669-2-2	IC	System: GW GW Playbus: GW				
			TECHNIC	AL DATA				
Power supply voltage (coil)		230V - 50/60	Hz	Power supply voltage (coil) 2		230V - 50/60	230V - 50/60Hz	
Output contact GW 20		GW 20 071 / 2	11 071 / 30 111 1NO;	Output contact		1 changeover contact NO/NC;		
GW 20 072 /21 072 / 30 112 2NO				10A (AC1) / 4	A (AC15) - 250V AC			
	10A (AC1) / 7A (AC15) - 250V AC							



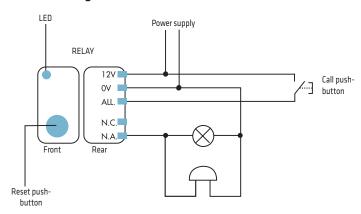


Call relay

"Bathroom Alarm" call system

For the locations where it is compulsory (bathrooms), space must be allowed for the manoeuvring of a wheel chair, and an emergency bell must be fitted near the toilet and bathtub.

Connection diagram



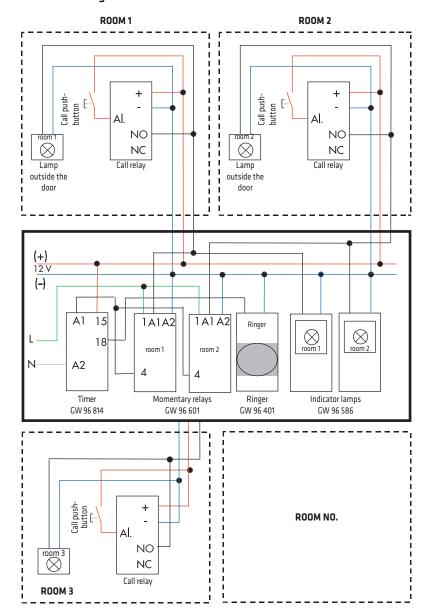
Multiple call system

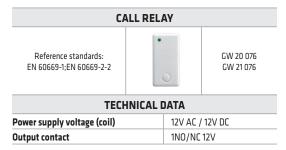
For small concerns (school classrooms, clinics, nursing homes, etc.) where the call must be localised from the control station.



Call display board located in the control station.

Connection diagram







SIGNAL

TV-SAT socket-outlets

The development of television transmission systems and of services intended for the user has raised the performance and quality level required for signal distribution systems.

The EN 60728 standards (systems for distribution of television and sound signals via cable) define the present and future European Standard and establish the requisites that the various parts of the system (including the terminal socket-outlets) must meet.

Thanks to their high performance level, these new socket-outlets provide optimal distribution of the signals (both digital and analogue), as required by the various providers for accessing current and future services.

	CHARACTERISTICS	ADVANTAGES
	Shielding efficiency (in compliance with standard EN 60728-4.	The socket-outlets are in a metal shell and are unaffected by the electromagnetic emissions (EMC) present in the environment.
UU HE	 Impedance adaptation. An innovative system for the quick, safe connection of the coaxial cable. 	Undesired signal reflections are avoided. Maintains the co-axiality of the cable in the connection point.
	A range featuring two types:user ports with F connector (type EN 60169-24) and with male IEC connector Ø 9.5mm (in compliance with HD 134.2 S2).	Maximum application flexibility with single or centralised systems (new / restored / pre-arrangements for future extensions). In satellite reception, due to the frequency range, it is very important to maintain the co-axiality of the connection, which is a requirement fully met by the innovative connection and the use of the F connector.

				TV	SAT		TV-SAT	
АР	PLICATION	S	Centralised system with star distribution	Centralised system with cascade distribution	SAT system for single service	Combined TV-SAT system for single service	Combined TV-SAT centralised system with star distribution	Combined TV-SAT centralised system with feedthrough socket-outlets
System: GW 20 391 GW 20 396 GW 20 392 GW 20 393	GW 21 391 C GW 21 396 C GW 21 392 C	Playbus: GW 30 311 GW 30 316 GW 30 312 GW 30 313			□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □			
System: GW 20 381 GW 20 386 GW 20 382 GW 20 383	GW 21 381 C GW 21 386 C GW 21 382 C	Playbus: GW 30 301 GW 30 306 GW 30 302 GW 30 303	Direct Direct Socket-outlets O O O O O O O O O O O O O O O O O O O	Feedthrough socket-outlets		Direct socket-outlet TV SAT	Direct socket- outlet Socket-outlet SAT	Feedthrough Sockets outlets SAT

Reference standards: EN 50083-1; EN 50083-2; EN 50083-4

Resistance of terminal closure: 75 ohm



TECHNICAL DATA					
Frequency field	From 5 to 2400 MHz				
Diameter of the coaxial cable	From Ø 5 to Ø 7mm				
Return channel	From 5 to 40 MHz				
Shielding	Class A				
Chrominance/luminance delay difference	<1 ns. for all models				
TV port	male IEC coaxial connector Ø 9.5mm				
SAT port	F (female) coaxial connector				



TV-SAT socket-outlets attenuation values

	Nominal		Attenuation / Loss of passage (flattening of response)				Branching attenuation / Loss of base (flattening of response)			Directivity		Return loss (dB)	
Gewiss code	attenuation	Return channel	TV	S	AT	Return channel	TV	S	AT	Return channel	TV-SAT	Return channel	TV-SAT
	(dB)	5-40 MHz	47-862 MHz	950-2150 MHz	2150-2400 MHz	5-40 MHz	47-862 MHz	950-2150 MHz	2150-2400 MHz	5-40 MHz	47-2400 MHz	5-40 MHz	47-2400 MHz
GW 20 391 - GW 20 381 GW 21 391 - GW 21 381 GW 30 311 - GW 30 301	0	-	-	-	-	≤ 0.5 dB (≤ 0.2 dB)	≤ 0.5 dB (≤ 0.5 dB)	≤ 0.8 dB (≤ 0.5 dB)	≤ 0.8 dB (≤ 0.5 dB)	-	-	≥ 10 dB	
GW 20 392 - GW 20 382 GW 21 392 - GW 21 382 GW 30 312 - GW 30 302	10	≤ 2.5 dB (≤ 1 dB)	≤ 2 dB (≤ 1 dB)	≤ 3 dB (≤ 1.5 dB)	≤ 3.2 dB (≤ 1.5 dB)	10.5 dB (± 1.5 dB)	10dB (± 1.5 dB)	10.5 dB (± 1.5 dB)	11dB (± 2.5 dB)	≥ 15 dB	complying with	≥ 10 dB	complying with CEI-EN
GW 20 393 - GW 20 383 GW 21 393 - GW 21 383 GW 30 313 - GW 30 303	14	≤ 1.5 dB (≤ 1 dB)	≤ 1.2 dB (≤ 1 dB)	≤ 2.2 dB (≤ 1.5 dB)	≤ 2.5 dB (≤ 1.5 dB)	15 dB (± 1.5 dB)	14.5 dB (± 1.5 dB)	14.5 dB (± 1.5 dB)	15 dB (± 2.5 dB)	≥ 15 dB	CEI-EN 50083-4	≥ 10 dB	50083-4
Insulation / separation between ports													
GW 20 396 - GW 20 386 GW 21 396 - GW 21 386 GW 30 316 - GW 30 306	5	≤ 5 dB (≤ 1.5 dB)	≤ 5 dB (≤ 1.5 dB)	≤ 6 dB (≤ 1.5 dB)	≤ 6.5 dB (≤ 1.5 dB)	≤ 5 dB (≤ 1.5 dB)	≤ 5 dB (≤ 1.5 dB)	≤ 6 dB (≤ 1.5 dB)	≤ 6.5 dB (≤ 1.5 dB)	>12 dB	>10 dB	≥ 10 dB	EN 50083-4 Degree 3

Telephone connectors

4-contact RJ11 telephone connectors, suitable for connecting the telephone, telefax, and modem.



System: GW 20 251

GW 21 251 Playbus: GW 30 261



System: GW 20 252 GW 21 252 Playbus: GW 30 262

TECHNICAL DATA	GW 20 251 - GW 21 251 GW 30 261	GW 20 252 - GW 21 252 GW 30 262
Connector type	RJ11	RJ11 double
No. of contacts	4	4
Connection	Terminal blocks with screws	Impact tool
Category	3	3
Transmission speed	up to 16 Mb/s	up to 16 Mb/s

Diagrams

Series connection

Reference standards:

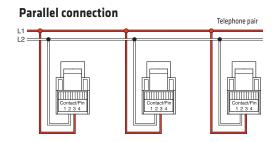
ISO 11801



Telephone pair

Clamps 3 and 4 are connected by means of the contact inside the telephone, which is closed when the telephone receiver is put down. When the telephone receiver is picked up, the line breaks downstream (L1 pole), ensuring that the conversation is not overheard.





Note: when one of the plugs is extracted, the socket-outlets downstream are disconnected. To prevent this problem, insert a plug with a jumper between terminals 3-4, in the socket-outlet from which the telephone appliance was unplugged.

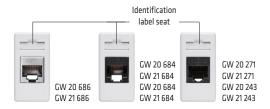
Each socket-outlet takes the signal from the line. There is no conversation secrecy.



Connectors for structured wiring

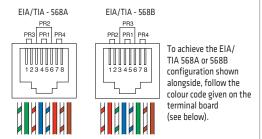
RJ45 connectors in categories 5e and 6, shielded and unshielded for data transmission. They allow network connection of information technology devices (computers, printers, modem, etc.) and the connection of multimedia devices (e.g. those used for video conferences). They can also be used for traditional, centralised telephone systems.

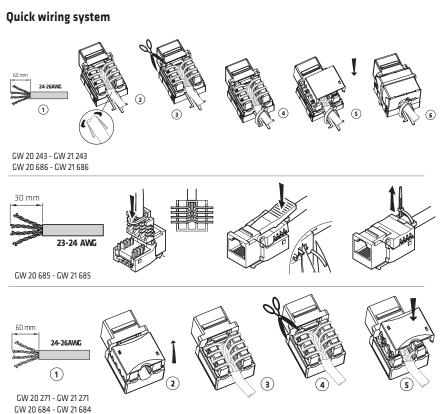
Reference standards: EN 50 173 - ISO 11801 - EIA / TIA 568A



TECHNICAL DATA	GW 20 686 GW 21 686	GW 20 684 - GW 21 684 GW 20 685 - GW 21 685	GW 20 243 GW 21 243	GW 20 271 GW 21 271	
Connector type		RJ45			
Type of usable cables	FTP UTP FTP				
Number of contacts		8			
Terminals	insulatio	insulation displacement connection (without the need for tools)			
Category	Cat. 6 Cat. 5e				
Usable transmission protocols	EIA / TIA 568A - EIA / TIA 568B				

Diagrams





Unwired containers for structured wiring

A data transmission system with structured wiring offers flexibility of use, installation of the final and universal network, commissioning independent of the location and use of the terminal outputs. In complex and extensive systems (e.g. tenders) the client requires a certificate of conformity for the entire system. Leading companies in the field of structured wiring, installed directly or by qualified operators, are able to provide this service. GEWISS, offering a shell which is compatible with IBM, AVAYA, AMP and Keystone Jack, makes it possible to integrate the PLAYBUS / SYSTEM ranges with data transmission components belonging to a structured system.

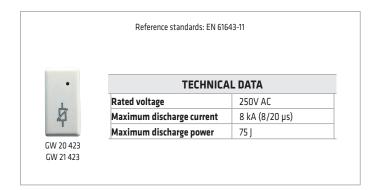


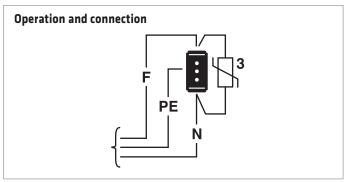
PROTECTION

Protection devices

Overvoltage limiter

The overvoltage limiter is a varistor-type discharger suitable for protecting a terminal circuit against mains overvoltages caused by manoeuvres or atmospheric discharges.





The overvoltage peak is absorbed by the varistor which, for voltage values higher than the arcing value, behaves like a resistor with a very low value. The overvoltage peak will not reach the service or will at least be greatly attenuated. If the varistor breaks, a fuse prevents short-circuiting and the fault is indicated by the LED going out.

Automatic circuit breakers

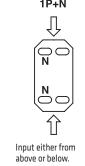
Automatic miniature circuit breakers for protection against overcurrent and earthing currents of terminal circuits.

Miniature circuit breakers



Residual current circuit breakers with overcurrent protection





GW 21 437

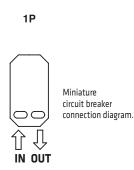
GW 21 438

GW 21 439

GW 21 448

GW 21 449

GW 21 450



Reference standards: EN 60898 - EN 61009-1 - EN 61543

GW 30 396 (red)

TECHNICAL DATA									
- Rated Rated Rate		Rated	Short-circuiting	Range of		Tripping characteristic			
Type of circuit breakers	voltage (V)	frequency (Hz)	residual current (mA)	capacity (A)	nominal currents (A)	No. of poles	Overcurrent protection	Limiting class	Residual current protection
Miniature circuit breakers	230	50 - 60	-	3000	6 - 10 - 16	1P 1P+N	Туре С	3	-
Residual current circuit breakers with overcurrent protection	230	50 - 60	10 - 30	3000	6 - 10 - 16	1P+N	Туре С	3	Class A



DIMMER

Rotating electronic regulators, for resistive/inductive loads

Dimmer with conventional potentiometer adjustment and static switching off by turning the knob on position zero.

Reference standards: EN 60669-1; EN 60669-2-1

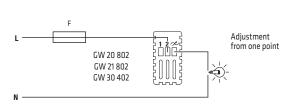


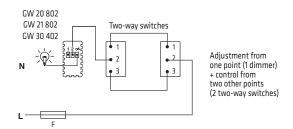
TECHNICAL DATA		GW 21 802 - 0 402	GW 20 803 - GW 21 803 - GW 30 403 ()	
Technology	with TRIAC		with TRIAC	
Rated voltage at 50/60Hz	230V	110V	230V	110V
Adjustable power	100-500W	50-250W	100-900W	100-500W
Adjustable load				
- Incandescent and halogen lamps	•	•	•	•
- Toroidal and lamellar transformers			•	•
- Manifold engines			•	•

▲ Items designed solely to export to a limited number of countries outside the European Union or proposed as candidate and to the European Free Trade Association.

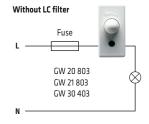
Typical use:

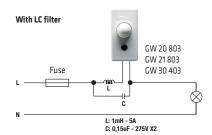
• Domestic sector for light source adjustment.





The conformity to EMC Directive is guaranteed only connecting the GW 2x 803 or GW 30 403 regulators to a LC filter as showed in the following wiring diagram.





WARNINGS

- The connection should be made together with a fuse carrier (eg. GW 2x 401) with a quick-acting fuse with high breaking capacity type F2.5AH 250Vac (for GW 2x 802 and GW 30 402) or type F5AH 250Vac (for GW 2x 803 and GW 30 403) as shown in the diagrams.
- The regulator does not have a mechanical circuit breaker in the main circuit and so is not galvanically separated. The circuit load should be considered always under voltage.
- The regulator does not have a methanical circuit breaker in the main circuit and so is not gardanically separated. The circuit does should be.
 The conductors should be pushed down to the bottom of the box. Do not let the conductors in the box contact the walls of the regulator.
- Do not install the regulator near thermostats or chronothermostats.
- Max n.1 regulator in the same round/square box. Max n.2 regulators in the same rectangular box; for installations with 2 regulators in the same box, the maximum loads controllable by each regulator should be reduced by 50%. The side-by-side installation of several products in a single box is not permitted: insert a blanking module between two electronic devices.
- It should be used in dry, dust-free places at a temperature between 0°C and +35°C.



Rotating electronic regulators with two-way switch, for resistive/inductive loads

Dimmer with incorporated two-way switch that makes it possible to command the switching on and off of a second point (using the two-way switch), or a number of points (using intermediate switches). Switched on and off by pressing the knob; adjustment by turning it.

Reference standards: EN 60669-1; EN 60669-2-1



TECHNICAL DATA	GW 20 811 - GW 2	GW 20 811 - GW 21 811 - GW 30 404		
Technology	with	TRIAC		
Power supply voltage at 50/60Hz	230V	110V		
Adjustable power	40÷300W (GW 30 404) 100÷500W (GW 20 811)	20÷150W (GW 30 404)		
Adjustable load				
- Incandescent and halogen lamps	•	•		
- Toroidal transformers	•	•		
- Lamellar transformers	•	•		

Typical use:

- Domestic sector for light source adjustment.
- In existing systems, the dimmer with two-way switch can be easily installed in place of a two-way switch, without modifying the original circuit.



WARNINGS

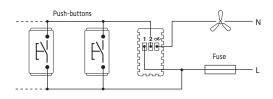
- The connection should be made together with a fuse carrier (eg. GW 2x 401) with a quick-acting fuse with high breaking capacity type F2.5AH 250Vac as shown in the diagrams.
- The conductors should be pushed down to the bottom of the box. Do not let the conductors in the box contact the walls of the regulator.
- · Do not install the regulator near thermostats or chronothermostats.
- Max n.1 regulator in the same round/square box. Max n.2 regulators in the same rectangular box; for installations with 2 regulators in the same box, the maximum loads controllable by each regulator should be reduced by 50%. The side-by-side installation of several products in a single box is not permitted: insert a blanking module between two electronic devices.
- It should be used in dry, dust-free places at a temperature between 0°C and +35°C.

Push-button electronic regulators, for air agitators

Push-button type dimmer with pre-set intensity levels (0-25-50-100%). By briefly pressing the push-button, the minimum intensity level will be obtained. With any further touch, the speed will change from the minimum to the medium, then the maximum. A subsequent touch will turn the dimmer off.

Reference standards: EN 60669-1; EN 60669-2-1





Command and adjustment from several points with NO push-buttons

Technical data

Power supply voltage: 230V-50 Hz

Power: 55-80 VA

Typical use:

• Suitable for adjusting air agitators, fans and extractors with induction engines. It can be controlled by external NO push-button.

WARNINGS

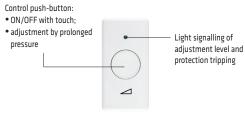
- Article only suitable for adjusting air stirrers, fans and aspirators with induction motors with auxiliary phase. Not suitable for adjusting fan-coil motors or light sources.
- The connection should be made together with a fuse carrier (eg. GW 2x 401) with a quick-acting fuse with high breaking capacity type F0.8AH 250Vac as shown in the diagrams.
- The regulator does not have a mechanical circuit breaker in the main circuit and so is not galvanically separated. The circuit load should be considered always under voltage.
- Do not install the regulator near thermostats or chronothermostats.
- It should be used in dry, dust-free places at a temperature between 0°C and +35°C.



Push-button electronic regulators, for resistive/inductive loads

Push-button type dimmer, with possibility of control and adjustment from any number of points using single-pole NO push-buttons; gradual switching on and off by briefly touching at the pre-set adjustment level (intensity memory); adjustment with prolonged pressure on the same button. The push-button regulators are available both in traditional and in IGBT technology that allows the regulation of electronic transformers and ensure a quiet and gradual operation.

Reference standards: EN 60669-1; EN 60669-2-1



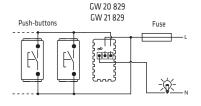
System:	GW 20 828 - GW 21 828
	GW 20 829 - GW 21 829
Playbus:	GW 30 407

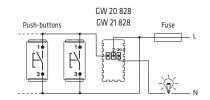
TECHNICAL DATA	GW 20 829 - GW 21 829 GW 30 406 - GW 30 407	GW 20 828 - GW 21 828 GW 30 401
Technology	with IGBT transistor	with TRIAC
Power supply voltage	230V - 50Hz	230V - 50Hz
Adjustable power	25 ÷ 300W (GW 30 406) 40 ÷ 300 (GW 20 829) 25 ÷ 180W (GW 30 407)	60 ÷ 500W
Adjustable load		
- Incandescent and halogen lamps	•	•
- Toroidal transformers	•	•
- Lamellar transformers		•
- Electronic transformers	•	

SPECIFIC FUNCTIONAL CHARACTERISTICS OF THE DIMMER GW 20 829 - GW 21 829 - GW 30 406 - GW 30 407 WITH IGBT TECHNOLOGY				
CHARACTERISTICS	ADVANTAGES			
Possibility of commanding electronic power supplies and reduced loads.	Versatile use.			
Memorisation of the adjustment level.	Easy positioning to a standard adjustment.			
Indicator lamp for level of adjustment and protection tripping.	The indicator lamp allows the device to be identified in the dark; it flashes to show the			
Automatic search for the maximum level of adjustment.	electronic protection has tripped. • Maximum comfort in selecting the level of adjustment.			
Electronic self-protection against overloading and short-circuiting, resettable.	Protection of the regulator in the event of overload connections or a fault with the service			
Adjustment with IGBT transistor.	device. • Total absence of buzzing during operation.			

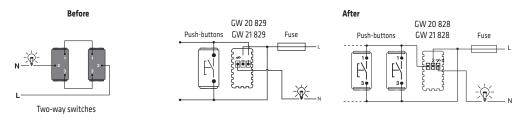
Typical use:

- Domestic sector, for adjusting light sources
- Commercial sector, hotel rooms, places for communities, conference halls, for adjusting light sources
- In existing systems, the push-button dimmers can be installed in place of two-way switches, without modifying the circuit.





Control and adjustment from several points with NO push-buttons



Control from two points (2 two-way switches)

Control and adjustment from two points (1 dimmer + 1 NO push-button)

WARNINGS

- The connection should be made together with a fuse carrier (eg. GW 2x 401) with a quick-acting fuse with high breaking capacity type F2.5AH 250Vac (for GW 2x 828) or type F1.6AH 250Vac (for GW 2x 829) as shown in the diagrams.
- The conductors should be pushed down to the bottom of the box. Do not let the conductors in the box contact the walls of the regulator.
- Do not install the regulator near thermostats or chronothermostats.
- Max n.1 regulator in the same round/square box. Max n.2 regulators in the same rectangular box; for installations with 2 regulators in the same box, the maximum loads controllable by each regulator should be reduced by 50%. The side-by-side installation of several products in a single box is not permitted: insert a blanking module between two electronic devices.
- It should be used in dry, dust-free places at a temperature between 0°C and +35°C.



ENERGY AND COMFORT MANAGEMENT

1-channel daily and weekly electronic timer

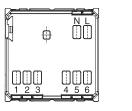
- Electronic device for the timed command of a load
- Positive LCD display with white backlight
- Permanent indication of: time, day of the week, load lighting status, functioning/working mode status,
- 144 daily cycles that can be set (transitions every 5 minutes)
- Manual activation/deactivation of the load (MAN mode)
- Programmed activation/deactivation of the load (AUTO mode), with daily/weekly cycles
- Permanent deactivation of the load (OFF mode)
- Immediate visualisation of the daily planning, via permanently visualised histogram
- Rechargeable buffer battery

Reference standards: EN 60730-1: EN 60730-2-7



GW 20 825 - GW 21 825

TECHNICAL DATA		
Power supply voltage 230V AC 50/60Hz		
Output contacts	1NO/NC 8A(AC1) / 4A(AC15) 250V AC	
Reserve charge	48 hours	
Dimensions 2 modules		
No. activations/deactivations 144		



Wiring terminals

Power supply: L - Phase N - Neutral

Output relay: 1 - NO contact

2 - NC contact 3 - Common

Serial line: 4 - TX (output data)

5 - GND (common)

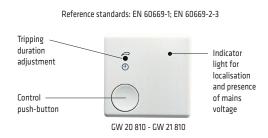
6 - RX (input data)

Command push-buttons:

- Selection of functional mode
- Modify (increase)
- Selection of operational mode
- Modify (decrease)

Timed electronic push-button

Timer with multiple functions, equipped with push-button for local control allowing the automatic delayed switch-off of lamps, fans, extractors, etc.

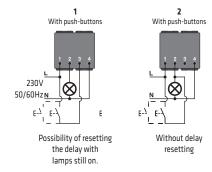


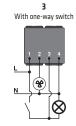
Connection diagrams

Domestic and commercial sectors:

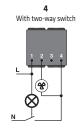
- •Stairs, halls and entrance lights (diagram 1 and 2).
- Aspirator for windowless bathrooms (diagram 3 and 4).

TECHNICAL DATA		
Power supply voltage 230V - 50/60Hz		
Output contacts (relays) 1NO, 10A (AC1) / 5A (AC15) - 250V AC		
Tripping duration adjustment 30s / 15 min.		





Delay in stopping the aspirator after switching off the lamp(the aspirator turns on when the lamp is switched on).



The timed switching on and off of the aspirator occurs after the turning off of the light.



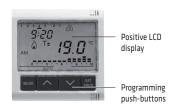
CLIMATE CONTROL

Timed thermostat - daily/weekly programming

The timed thermostat allows you to automatically control the weekly temperature and timing within the place of installation, together with the heating and air-conditioning systems.

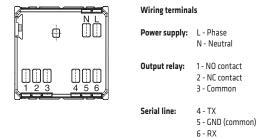
- Powered by mains voltage
- Relay output contact for commanding the boiler, air-conditioner, zone solenoid valve, etc.
- LCD display with white backlight (the backlighting is activated every time one of the button-keys is pressed, and switches off 5 seconds after the last touch)
- Programming on a weekly basis (a programme for 7 days with hourly profiles independently configurable for each day)
- Setting of hourly profile on 24-hour basis, with 3 different temperature levels (T1, T2, T3) and profile display
- Programming of times with a resolution of 15 minutes without a limit in the number of daily changes
- Residual current circuit breaker for adjustment can be set and differentiated for HEATING and AIR-CONDITIONING
- PARTY and HOLIDAY functions for programming special functioning speeds of different duration periods
- Functioning modes that can be set: AUTOMATIC / MANUAL / OFF
- Possibility to select the system thermal gradient self-learning function. This function optimises the heating anticipation (up to 2 hours) in order to guarantee the set temperature right from program start;
- Rechargeable buffer battery.

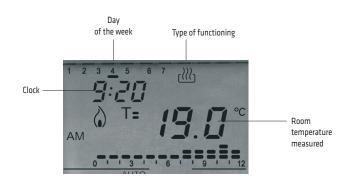
Reference standards: EN 60730-1; EN 60730-2-7, EN 60730-2-9



System: GW 20 827 - GW 21 827 Playbus: GW 30 706

TECHNICAL DATA		
Power supply voltage	230V AC 50/60Hz	
Dimensions	2 modules	
Output contact	1NO/NC with potential-free contact	
	5A(AC1) / 2A(AC15) 250V AC	
Operating temperature	-5 to +45°C	
Detected temperature display range	0 to +45°C	
Adjustment range	+5 to +40°C	
Tolerance	±0.5°C to 20°C	
Reserve charge	48 hours	







Wall-mounting timed thermostat - daily/weekly programming - battery-powered

The timed thermostat allows you to automatically control the weekly temperature and timing within the place of installation, together with the heating and air-conditioning systems.

- Powered with 3 alkaline batteries (1.5V AAA)
- Relay output contact for commanding the boiler, air-conditioner, zone solenoid valve, etc.
- Programming on a weekly basis (a programme with hourly profiles independently configurable for each day of the week)
- Setting of hourly profile on 24-hour basis, with 3 different temperature levels (T1, T2, T3) and profile display
- Programming of times with a resolution of 15 minutes without a limit in the number of daily changes
- Residual current circuit breaker for adjustment can be set and differentiated for HEATING and COOLING
- PARTY and HOLIDAY functions for programming special functioning speeds of different duration periods
- Functioning modes that can be set: AUTOMATIC / MANUAL / OFF
- Possibility to select the system thermal gradient self-learning function. This function optimises the heating anticipation (up to 2 hours) in order to guarantee the set temperature right from program start;

The device can be wall-mounted (fixed with plugs) or installed on a 3-module flush-mounting box.

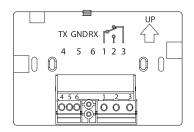
Reference standards: EN 60730-1; EN 60730-2-7, EN 60730-2-9



TECHNICAL DATA Power supply 3 alkaline-type batteries (1.5V AAA) Average battery life: minimum 1 year Dimensions 130 x 92 x 23mm Output contact 1NO/NC with potential-free contact 5A(AC1) / 2A(AC15) 250V AC Operating temperature -5 to +45°C 0 to +45°C Detected temperature display range Adjustment range +5 to +40°C

± 0.5°C to 20°C

Base for fixing on wall with terminal block



Wiring terminals

Tolerance

Potential-free output: 1 - Common

2 - NO contact

3 - NC contact

Serial line: 4 - TX

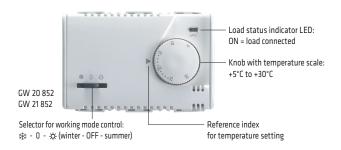
5 - GND (common) 6 - RX

6 - RX



Temperature control devices

Electronic summer/winter thermometer with knob adjustment



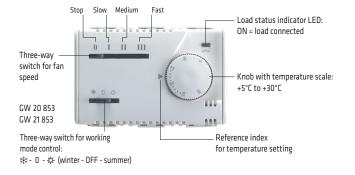
Reference standards: EN 60730-1;EN 60730-2-9

TECHNICAL DATA				
Power supply voltage	230V AC - 50/60Hz			
Type of output	relay, with changeover contact NO/NC 8(2)A / 250V AC			
Service connections (load)	2 or 3 wires			
Indicator lights	LED indicating load connected/ disconnected			
Night-time reduction control	possibility of remote application, suitable for "Winter" operation			
Reduction temperature (referred to set temperature)	-4°C			
Adjustment range	from +5°C to +30°C			
Hysteresis	Δ t = 0.7°C			
Reading accuracy	± 1°C			
Operating temperature limits	0°C to +50°C			

Installation characteristics 00 C NO NC Ν 5 230V AC power supply 6 Inputs for night-time reduction (winter) control 230V AC <u></u> PROGRAMMER GW 20 825 GW 21 825 0

Example of connection to boiler and clock for night-time reduction control

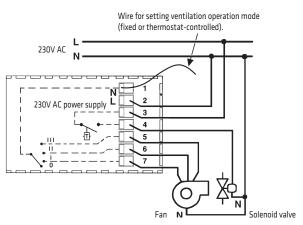
Electronic thermostat for fan coil



Reference standards: EN 60730-1;EN 60730-2-9

TECHNICAL DATA				
Power supply voltage	230V AC - 50/60Hz			
Type of output for type of control				
- fixed fan	polarised single-pole three-way switch 5(2)A / 250V AC			
- solenoid valve (thermostat-controlled):	polarised single-pole ON/OFF relay 5(2)A / 250V AC			
- fan + solenoid valve (thermostat-controlled):	relay + three-way switch, max. total capacity 5(2)A / 250V AC			
Indicator lights	LED indicating load connected/ disconnected			
Adjustment range	from +5°C to +30°C			
Reading accuracy	±1°C			
Operating temperature limits	0°C to +50°C			

Installation characteristics



- Depending on the type of installation, connect the speed control wires from the fan to terminals 5 6 7:
- terminal no. 5 fan "Fast"
- terminal no. 6 fan "Medium"
- terminal no. 7 fan "Slow"
- •The solenoid valve command is always thermostat-controlled.
- •To change the ventilation setting, follow the instructions below:
- a) Thermostat-controlled ventilation Connect the wire emerging above the thermostat terminal block (hole 1) to terminal no. 4
- **b) Fixed ventilation** Connect the wire emerging above the thermostat terminal block (hole 1) to terminal no. **3**.
- •The thermostat is factory-set for operation with thermostat-controlled ventilation.



SIGNALLING

Anti-blackout lamp

Flush-mounting anti-blackout lamp

Flush-mounting anti-blackout lamp, 1 System module, suitable for auxiliary lighting in the event of a mains failure. Front LED indicating presence of mains and standby (steady green light).



GW 20 835 - GW 21 835

TECHNICAL DATA		
Power supply voltage	230V AC	
Battery	Ni-Mh (2 elements from 2.4V)	
Minimum autonomy	1 hour	
Recharging time	12 hours	
Lamp	White high efficiency LED	
Mains absorption	Max 6.5mA	
Dimensions	1 System module	

Extractable anti black-out lamp

Extractable lamp suitable as auxiliary lighting in the event of mains failure, with possibility to be used as flashlight. The lamp can be switched off via the frontal switch.



System: GW 20 833 - GW 21 833 Playbus: GW 30 501

TECHNICAL DATA	
Power supply voltage	230V - 50/60Hz
Batteries	Ni-Mh (4.8V / 40mAh)
Minimum autonomy	2h
Recharging time	36 hours
Lamp	White high efficiency LED
Mains absorption	Max 6 mA
Dimensions	2 System modules



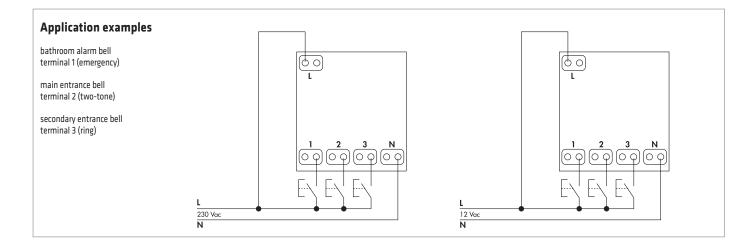
Electronic ringer with 3 different sounds

Acoustic signaller with multiple functions, suitable for producing three clearly distinguished signals, e.g. bathroom alarm (emergency type sound), main entrance bell (two-tone sound), secondary entrance bell (ringing sound).

Possibility of ringer volume adjustment (using a small tool) with a selector located on the front of the product.



TECHNICAL DATA			
Power supply voltage	GW 20 641 - GW 21 641	12V 50Hz	
	GW 20 643 - GW 21 643	230V 50Hz	
Sound intensity	GW 20 641 - GW 21 641	90dB at 1m	
	GW 20 643 - GW 21 643	90dB at 1m	
Max. power absorbed	GW 20 641 - GW 21 641	3 VA	
	GW 20 643 - GW 21 643	3 VA	



Stair riser lamp with white LED 12-230V AC

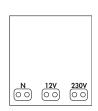
The product has a dual power supply input (12 - 230V AC), a light beam adjuster device, and an integrated white LED.





GW 21 634

TECHNICAL DATA		
Power supply voltage	12/230V AC double input	
Type of lamp	Bright white LED	
Draw	12V 0.12 W/0.12 VA	
	230V 0.6 W/3.6 VA	





SAFETY

Gas detectors

The gas detectors reveal the presence of substances (CH4/GPL) that are dangerous for the domestic environment where they are installed

- Indicator lights and acoustic alarm signalling
- Closure of a solenoid valve, via relay
- Indicator lights for malfunctioning of sensor or device
- Device operating test function

The closure of the solenoid valve via the relay is carried out approximately 20s after the start of the alarm situation.

The push-button allows you to carry out the operational test: when pressed, the red LED lights up (alarm signalling), the buzzer sounds and, after about 20s, the relay is activated. Upon the release of the push-button, the signalling is immediately deactivated.

The detectors can be connected to the mains voltage, using a power supply unit (GW 20 866, GW 21 866 for System; GW 30 518 for Playbus).

Owing to the particular thermal sensitivity of the LPG sensor, you are advised to position it far from the power supply unit, and apply a blanking module.

Reference standards: EN 50081-1; EN 50082-1



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System: GW 20 868 - GW 21 868

Playbus: GW 30 520

METHANE GAS

System: GW 20 867 - GW 21 867 Playbus: GW 30 519

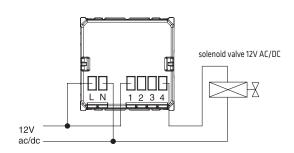
Connection terminals

L-N - 12V AC/DC power supply

- 1 Common 2 - NC contact
- 3 NO contact
- 4 NO contact

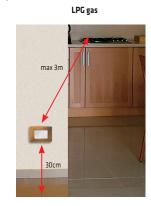
TECHNICAL DATA		
Power supply voltage 12V AC/DC		
Power absorbed	2 VA	
Alarm threshold	9% LIE (lower explosive limit)	
Alarm sound level	85 dB at 1m	
Operating temperature	+5 to +40°C	
Relative environmental humidity	+30 to +90% without condensation	
Output contact in switching:	1 NO/NC 10A (NO)/3A (NC) 250V AC	
Fixing	flush-mounting on CHORUS support	
Dimensions	2 modules	
Lifespan of device	5 years from when first powered	

Connection diagram



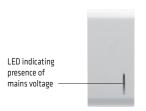
Correct positioning of detectors

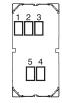




Power supply unit

Insulation transformer suitable for the power supply of a gas or water detector. Internally protected against overloading, short-circuiting and excessively high temperatures.





Wiring terminals

Power supply:

1 - Phase

2 - Neutral 3 - Earth

12V output:

5 - Positive

4 - Rerence potential

TECHNICAL DATA	
Power supply voltage 110 - 250V AC	
Dimensions	1 module
Output voltage	12V DC
Power absorbed	2 VA

System: GW 20 866 - GW 21 866 Playbus: GW 30 518