COMPALARM GW

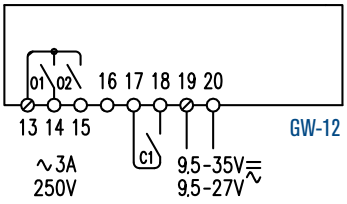
MODULES FOR SUPERVISION AND REMOTE CONTROL THROUGH GSM NETWORK

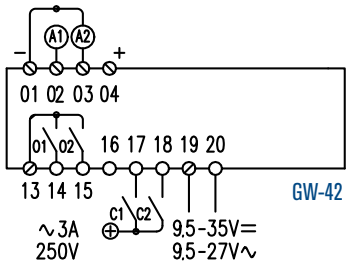
GENERAL

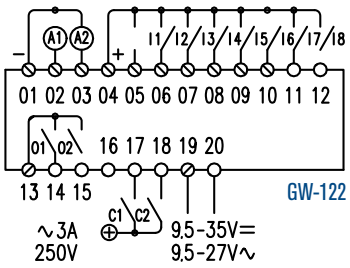
GW Series is an industrial DIN rail GSM modem for the supervision and control of remote inputs and outputs by means of enhanced features available through GSM network and the Web. GW sends user defined messages via SMS, tweet, e-mail or free phone rings. GW can provide detailed reports on input status and notify local events.

Outputs can be controlled by authorized users via SMS, tweet, Web, free phone rings and phone keyboard. The user can configure the unit to deploy actions when a specific event occurs. Quad band GSM / GPRS / EDGE communication with automatic or manual selection on bands 850 / 900 / 1800 / 1900 MHz for data, sms, fax and voice applications. Full Type Approved and compliant with ETSI GSM Phase 2+ and with Part 15 of the FCC Rules.

WIRING DIAGRAM





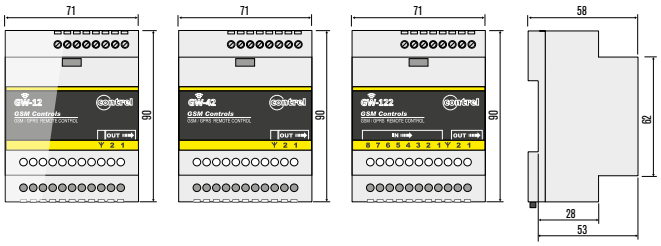


MODELS AND DIMENSIONS

GW-12 1 digital inputs and 2 relay outputs

GW-42 2 analog + 2 digital inputs and 2 relay outputs

GW-122 Up to 12 inputs and 2 relay outputs



GW-12

- 13 Output common
- 14 Relay Out 1
- 15 Relay Out 2
- 16 NC
- 17 Counter In 1
- 18 Positive 2,8V
- 19 Power Supply
- 20 Power Supply

GW-42

- 01 Negative
- 02 Analog In 1
- 03 Analog In 2
- 04 Positive 3,3V
- 13 Output common
- 14 Relay Out 1
- 15 Relay Out 2
- 16 NC
- 17 Counter In 1
- 18 Counter In 2
- 19 Power Supply
- 20 Power Supply

GW-122

- 01 Negative
- 02 Analog In 1
- 03 Analog In 2
- 04 Positive 3,3V
- 05 Digital In 1
- 06 Digital In 2
- 07 Digital In 3
- 08 Digital In 4
- 09 Digital In 5
- 10 Digital In 6
- 11 Digital In 7
- 12 Digital In 8
- 13 Output common
- 14 Relay Out 1
- 15 Relay Out 2
- 16 NC
- 17 Counter In 1
- 18 Counter In 2
- 19 Power Supply
- 20 Power Supply

COMPALARM GW

MODULES FOR SUPERVISION AND REMOTE CONTROL THROUGH GSM NETWORK

ELECTRICAL CHARACTERISTICS	GW-12	GW-42	GW-122
AUXILIARY SUPPLY			
Rated voltage	9,5 ... 35 VCC - 9,5 ... 27 VCA		
Idle Power	< 200 mW		
Peak Power	< 5 W		
Optional battery	Li-Poly		
MODEM GSM/GPRS			
Bands	Quad band 850/900/1800/1900 MHz		
Output power	Class 4 (2W for GSM850 e EGSM900) Class 1 (1W for DCS1800 e PCS1850		
SIM			
Compability	3v and 1.8v SIM card allowed		
ANTENNAS			
Connector	SMA male or FME female		
GSM antenna	Integrated omnidirectional antenna		
External GSM antenna	(view table)		
DATA INTERFACE			
Connector	RS-232 (RJ45 modular connector)		
USB cable (optional)	RJ45 - USB communication cable to manage configuration and control		
232 cable (optional)	RJ45 - DB9 communication cable to manage configuration and control		
INPUTS			
Number of inputs	1	4	12
Input voltage	3 ... 9 VDC		
Input current	5mA @ 5V		
OUTPUTS			
Number of outputs	2		
Rated voltage	250 VAC		
Rated current	3 A		
Max breaking capacity	750 VA		
AMBIENT CONDITIONS			
Operating temperature	-30 ... 60°C	4	12
Storage temperature	-20 ... 60°C		
Relative humidity	5 ... 95% non condensing		
HOUSING			
Material	Polycarbonate self-extinguish UL94-V0		
Version	DIN EN-50022 rail 4 modules		
Dimensions w x h x d	71 x 90 x 58 mm		
Degree of protection	IP40		
Weight	200 g		
COMPLIANCE			
HEALTH AND SAFETY REQUIREMENTS PURSUANT TO CLAUSE 3.1a	EN 60950-1:2006 | EN 60950-1 A11:2009 | EN 60950-1 A1:2010 EN 60950-1 A12:2011 | EN 50385:2002		
PROTECTION REQUIREMENTS CONCERNING EMC CLAUSE 3.1b	EN 301 489-7 V1.3.1:2005-11 | EN 301 489-1 V1.9.2:2011-09		
MEASURES FOR THE EFFICIENT USE OF THE RADIO FREQUENCY SPECTRUM CLAUSE 3.2	EN 301 511 V9.0.2:2003-03		
COMPLIES WITH PART 15 OF THE FCC RULES	FCC Part 15 part A | FCC Part 15 part B | ANSI C63.4		

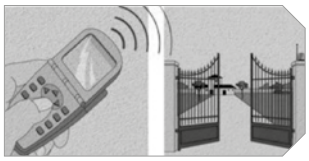
EXTERNAL GSM ANTENNA - REF. FOR ORDER

STRIP + SMA **STRIP + FME**		Adhesive antenna for non-metallic surfaces. Mounting: Adhesive strip	**BODY SMA** **BODY FME**		Body mount outdoor antenna. IP69K Mounting: M10 passthru + adhesive gasket
MAGNETIC + SMA **MAGNETIC + FME**		Magnetic antenna for metallic surfaces. Mounting: Magnetic base	**MiniFINGER SMA** **MiniFINGER FME**		Multi band outdoor antenna. Mounting: Wall / Pole

COMPALARM GW

MODULES FOR SUPERVISION AND REMOTE CONTROL THROUGH GSM NETWORK

APPLICATIONS



ACCESS CONTROL

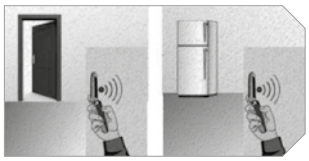
Any phone becomes a virtual key !
Gates and other types of barriers can be controlled by calls from the authorized users' mobile or landline phone (no answer, no cost).
Manage hundreds of user, perfect for hotels, b&b, resorts, condominiums, public parking...

CLIMATE CONTROL

Send a free phone call or an SMS from your mobile to run the heating (or cooling) system a few hours before your arrival.
You can also specify the temperature setpoint and how long it should run or the exact date/time it turns off.
Optional alerts for blackouts and low/high temperature.

HOME AUTOMATION

Control household appliances from remote by means of SMS, calls and even tweets.
Ask for status or receive alerts for local events.
Create an output control strategy based on input signals and schedule up to 100 activities on a time basis by means of embedded programmer.



CRITICAL ALERTS

Prompt alerts (phone calls, SMS, Emails, Tweets) issued on local events.
... when a door is opening or the door is left open for long time (you can set the activation time)...
... at main power supply blackout or restore (you can set a minimum duration)...

ALARMS

In isolated or unguarded buildings, alarm sirens are not enough to ensure immediate reporting and actions in case of emergency.
Receive an emergency alert wherever you are: in case of fire, for instance, you can call the fire brigade and emergency medical services.

FAILURES

Report technical faults to the A.M.O. and receive a further message when the equipment is back to operating condition.
Internal time counter could be set to keep trace of working time for industrial machinery, boilers, elevators, freezers, vending machines...

GREENHOUSES

Detect soil moisture content, activating irrigation when the sensor records an insufficient moisture level, preventing water waste.
Keep temperature under control and inform maintenance operators when is falling below or rising above the specified thresholds.

STREETLIGHTS

To reduce light pollution and energy waste the public lighting for rural areas can be activated on demand by free phone call of inhabitants.
Set scheduled operation in order to turn on and off the lights on a time basis to guarantee the minimum service level.

ROAD SAFETY

Promptly inform the maintenance service in case of failure or blackout of public services and manage auxiliary power supplies.
Control traffic lights and road signs from service center, allowing local policemen to take control from their phones in case of emergency.

UNATTENDED PLANTS

Send alerts up to 100 recipients in case of power supply interruptions or any other failure at unmanned plants.
At the same time you may trigger the motor operating device which recloses the circuit breaker and restores power supply.