

GWC V4 4DIN

Generic Web Controller



1 Warning

- This manual is part of the product and should be kept near the instrument for easy and quick reference.
- The device shall not be used for purposes different from those described hereunder. It cannot be used as a safety device.
- Check the supply voltage is correct before connecting the instrument.
- Do not open the device.
- In case of failure or faulty operation send the instrument back to "Higeco S.r.l." (see address at the footer) with a detailed description of the fault.
- Ensure that the wires for loads and the power supply are separated and far enough from each other, without crossing or intertwining.
- The device must be installed in accordance with the safety regulations in force.

2 General description

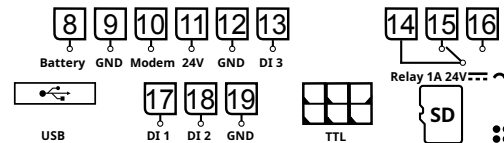
The GWC datalogger is a general purpose monitoring unit suitable for different application fields. It's equipped with 3 programmable digital inputs, a SPDT relay, a RS485 serial port, a RS422 serial port, a CANBUS communication port and an input for external backup battery. Connectivity is granted either via ethernet port or by GPRS/UMTS/LTE modem, connected by USB port. Alphanumeric display and local keyboard allow to first configuration of GWC.

3 System LEDs

The device is equipped with 4 LEDs:

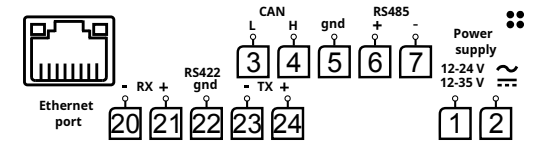
LED	Colore	Descrizione
Power	Green	Powered
	Off	Not powered
Active	Green	Acquisition ON
	Off	Acquisition OFF
Server	Yellow	Server Connected
	Yellow blinking	Connection Error
	Off	Server Disabled
Alarm	Red	Alarm(s) happened
	Off	No alarm is present

4 Wiring



Upper terminal block:

- **8-9:** 12V back-up battery connection
- **9-10:** Modem connection
- **11-12:** 24Vdc - 100 mA (max) output
- **12-13:** Digital input 3
- **14-15-16:** Relay
- **17-18-19:** Digital inputs 1 e 2



Lower terminal block:

- **Ethernet port**
- **1-2:** Power supply
- **3-4-5:** CANBUS (optional)
- **5-6-7:** RS485
- **20-21-22-23-24:** RS422

5 Power supply

The device must be powered with a SELV type safety transformer with LPS source with protection against short-circuit and overload. The datalogger can be powered at 12-18 Vac \pm 10% or at 12-24 Vdc \pm 10% through terminals 1-2 located in the lower part of the device. The device is internally protected by a fuse which guarantees its overload safety. This fuse CANNOT be removed and replaced.

6 First setup

To configure the GWC for the first time, connect the datalogger to a PC using an ethernet cable and type from a browser the default address: <http://192.168.200.90>

Default credentials are:

Username	user
Password	higeco

To change the default IP address press OK then use ▼ to reach Network. Press OK to change the IP address, netmask, gateway and DNS.

Access with serial number:

To access using the serial number, it's necessary that both the GWC and the PC have the DHCP enabled. After this, go to:

<http://sn-XXX.local>

XXX → The last 3 digit of the serial number (reported to the label).

7 Display

On board display consists of 2 lines and 16 characters. Here below the main tree-list of the menu structure. (Please notice that your current menu structure may differ from the one here described due to a different firmware version).

To modify a value, use the ▼ ▲ keys, then press OK to confirm. Each IP address field can be skipped by pressing OK button.

1 Status

1.1 GWC

- **sn:** View the GWC serial number, with which the Server identify the device
- **OnOff:** in Off state the GWC will not record the data

1.2 Network

- **IP:** IP adress of the LAN port

1.3 WiFi

- **IP:** IP adress of the Wi-Fi

1.4 Modem

- **Status:** status of the modem connection
- **APN:** current acces point for the modem connection
- **Signal level:** strength of signal

2 Active alarms

2.1 Current alarm list: show any active alarms

3 Archive

3.1 Devices: list of devices and thier data value

3.2 Plugin: list of available plugins and their data value

4 Configuration

4.1 Data/Time: manual setting of date and time

4.2 Network: modifcations to this section requires the reboot of the machine

- **DHCP:** Automatic IP assignment by router
- **IP:** IP adress setting
- **Netmask:** Netmask setting
- **Gateway:** Gateway setting
- **Dns1/2:** DNS server setting
- **Porta webserver:** webserver port setting
- **Porta ssh:** ssh port setting

4.3 Modem:

- **Modem:** enabled/disabled of the modem
- **APN:** list of available APNs. The “auto” option automatically searches for the compatible APN
- **Modem type:** list of the supported modems

5 Tools

5.1 Reboot: GWC reboot.

8 Back-up battery

To use the back-up battery, check that the GWC power supply voltage is at least 15Vac/dc, for a correct battery charging.

9 Technical specification

- **Housing:** ABS
- **Type :** 4 DIN
- **Mounting:** DIN rail
- **Protection:** IP20
- **Connections:** detachable screw terminal blocks, section D2,5mm²
- **Power supply:** 12-24 Vac ±10% - 12-35 Vdc ±10%
- **Current consumption:** 350mA max
- **Digital input 1 and 2:** dry contact or impulse counter
- **Digital input 3:** dry contact
- **Alarm output relay:** max 24Vac/dc - 1A
- **Dimension:** 71 x 110 x 63 mm
- **Operating temperature:** -20°C ÷ +70°C

10 Device options

Order's code	Device marking	Description
PGWC0028	GWC V4 4DIN PGWC0028	GWC 4DIN V4 datalogger, 1 RS485, 1 RS422, 3 DI, 1 DO, 1000 data tags
PGWC0029	GWC V4 4DIN PGWC0029	GWC 4DIN V4 datalogger, 1 RS485, 1 RS422, 3 DI, 1 DO, 1500 data tags
PGWC0030	GWC V4 4DIN PGWC0030	GWC 4DIN V4 datalogger, 1 RS485, 1 RS422, 3 DI, 1 DO, 2500 data tags
PGWC0031	GWC V4 4DIN PGWC0031	GWC 4DIN V4, 3 DI, 1 DO, 2000 data tags with RS422 and CANBUS

11 End of life

End of life cycle dispose according to the in force regulations.



12 Certifications

