

# Gatelog 2.0 | Industrial Version

GL02.B

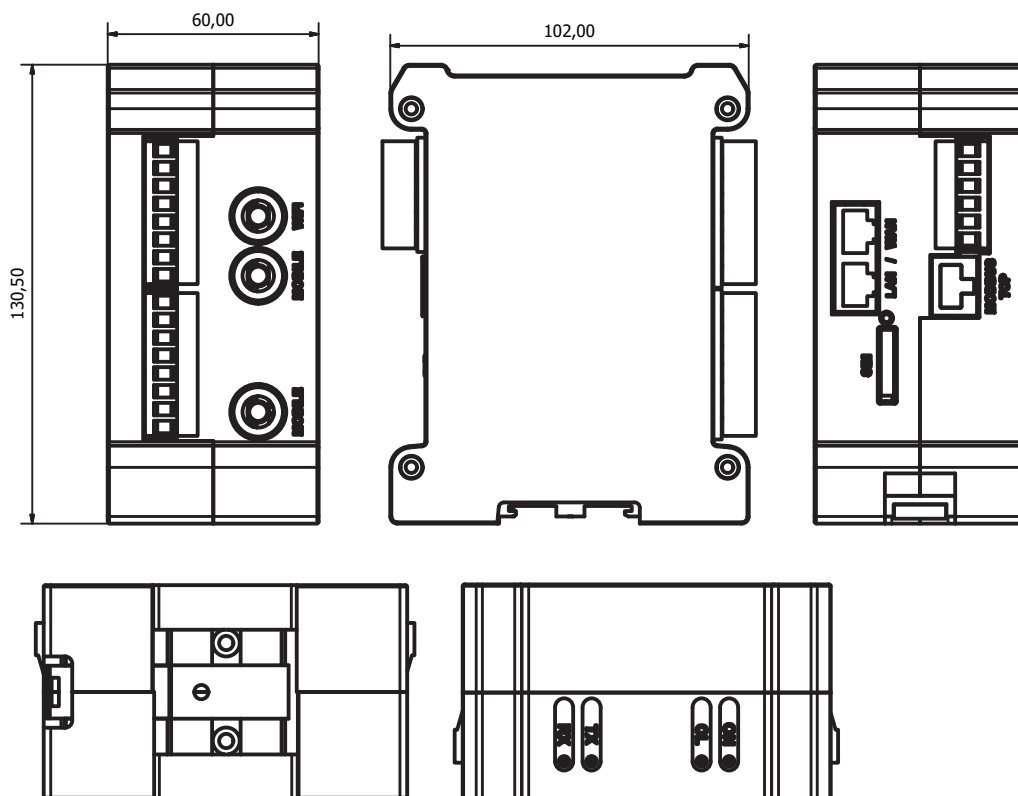
The Gatelog is a device that provides a single solution for various functions.

- **DATA LOGGER:** Allows data storage acquired by the system on subsequent publication on the web;
- **WEB SERVER:** Has the purpose of processing web pages and generating contents dynamically;
- **GATEWAY:** Allows the acquisition of the parameters via ModBus protocol (Analyzers, PLC, Acquisition Modules, etc.) up to 32 devices;
- **ROUTER 4G + WiFi:** a 4G industrial router equipped with two Ethernet ports with a new feature of having the external slot for the introduction of the SIM card. The network can be distributed to devices and apparatus via Ethernet connection or WiFi Hotspot;
- **ETHERNET BRIDGE:** Allows the passage from Ethernet to a chain of ModBus devices up to 8 simultaneous connections on TCP/IP in a completely transparent way;
- **I/O Module:** Device for acquiring analog and digital signals.

#### Main features:

- Ethernet 10/100Base-T network interface, Modbus TCP
- RJ45 connector
- Configuration from integrated web server
- Integrated router
- Integrated WiFi
- RS-485 serial interface
- Modbus RTU Master
- Baud rate up to 115.2 Kbps
- Distance up to 1200 m, up to 32 multipoint modules
- Connection to removable terminals
- Ethernet Link/Act signaling LED, serial RX-TX, power supply
- Galvanic insulation on the 3 ways
- Conformity EC Mark
- Suitable for mounting on DIN EN-50022 track

## Technical Data Sheet



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## Technical Data Sheet

PROCESSOR	
SoC	Broadcom BMC2835 (CPU + GPU + DSP + SDRAM)
CPU	BMC2835 700 MHz ARM1176JF-S core (group ArM11)
GPU	Broadcom VideoCore IV, Open GL ES 2.0, 1080p30 H.264 high-profile decode
Memory	Micro SD

INTERFACE	
Network Interface	Ethernet 10/100 IEEE 802.3
Protocol	Modbus TCP, MQTT
Serial Interface	RS485
Protocol	ModBus
Transmission speed	configurable up to 115,2 Kbps
Equivalence	configurable as even/ odd/ space
Stop Bit	configurable as 1 o 2
Max Speed Ratio/Speed (recommended) <small>(The maximum distance that can be reached depends on the number of connected devices, the type of wiring, the disturbances, etc ...)</small>	1,2 Km @ 38400 bps 2 Km @ 19200 bps 3 Km @ 9600 bps 4 Km @ 4800 bps 5 Km @ 2400 bps 7 Km @ 1200 bps
Connectable terminals in multipoint	32 max.
Switching time TX/RX (RS485)	150 us.
Termination resistors	Adjustable at 120 Ohm

CONNECTIONS	
Ethernet	RJ-45
RS-485	Removable screw terminals 5.08mm pitch
Inputs	n°2 4-20mA
Inputs	n°2 0-10V
Inputs	n°1 PT100
Configurable I/O	n°4 digitals configurable individually
Power supply	Removable screw terminals 5.08mm pitch
Protection Rating Input	IP30

POWER SUPPLY	
Supply voltage	9 ÷ 36 Vdc
Absorption	2A max

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INSULATION	
Ethernet/ RS485	1500 Vac, 50Hz, 1 min
Ethernet/Power supply	1000 Vac, 50Hz, 1 min
Power supply/RS485	1500 Vac, 50Hz, 1 min
ENVIRONMENTAL CONDITIONS	
Working temperature	+0°C ..+60°C
Storage temperature	-20°C ..+70°C
Humidity (non-condensing)	0 ..90%
Maximum altitude	2000 m slm
Installation	Indoor
MECHANICAL SPECIFICATIONS	
Material	Plastica auto-estinguente
IP container degree	IP20
Assembly	su binario DIN conforme - a EN-50022
Weight	300g circa
Dimensions	4 moduli DIN
EMC CERTIFICATIONS (for industrial environments)	
Immunity	EN 61000-6-2
Emission	EN 61000-6-4

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## Technical Data Sheet - Router 4G

LAN	1 x LAN port, 10/100 Mbps
WAN	1 x WAN
Mobile module	4G (LTE) – Cat 4 up to 150 Mbps, 3G – Up to 42 Mbps, 2G
WiFi	WPA2-Enterprise
Wireless mode	IEEE 802.11b/g/n, Access Point (AP), Station (STA)
Ethernet	2 x RJ45 ports, 10/100 Mbps
Status LEDs	3 x connection type status LEDs, 5 x connection strength LEDs, 2 x LAN status LEDs, 1x Power LED
SIM	1 x SIM slot (Mini SIM – 2FF, 2st form factor), 1.8V/3V, external SIM holder
Antennas	2 x SMA for LTE, 1 x RP-SMA for WiFi antenna connectors
Reset	Reset/restore to default button
Events	SMS, EMAIL, RMS
CPU	Atheros Hornet, MIPS 24Kc, 400 MHz
RAM	64MB, DDR2