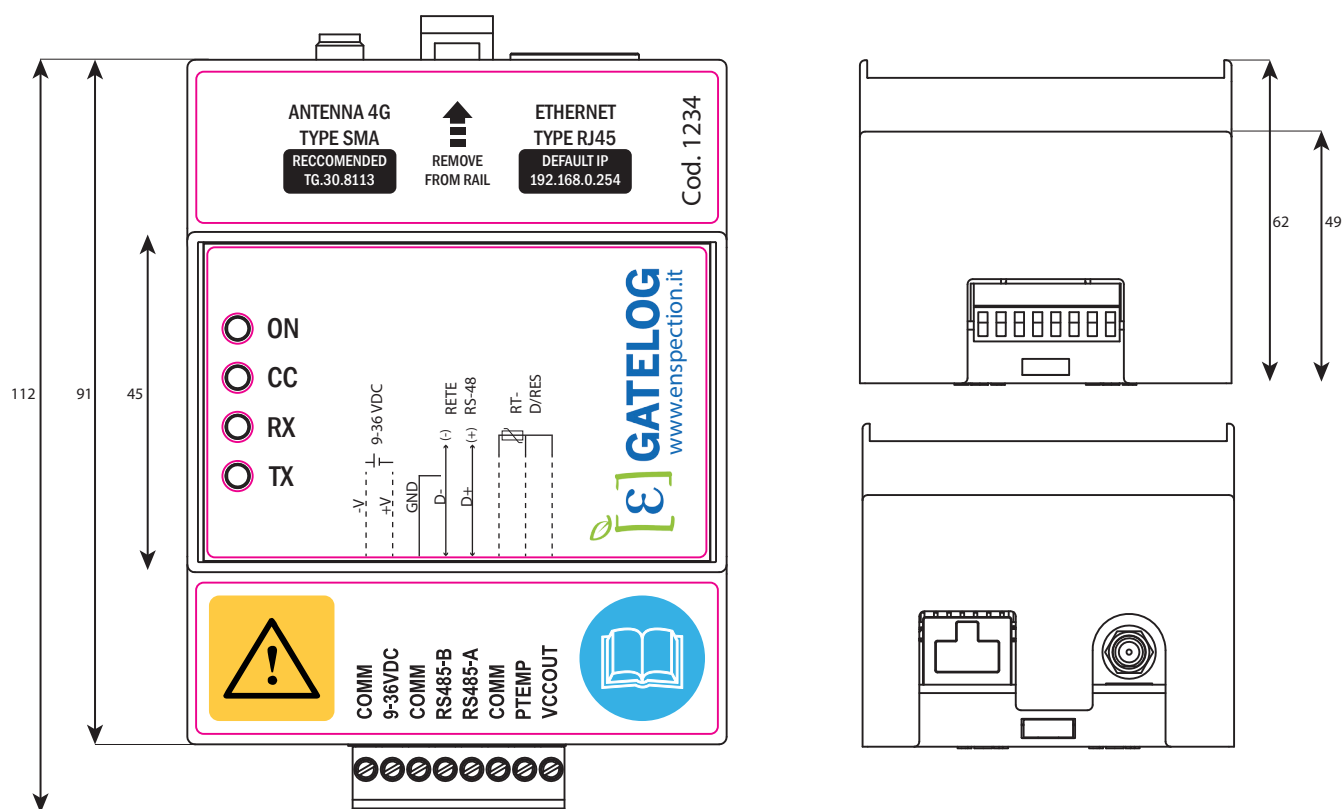# [ε]NSPECTION

Gatelog

The Gatelog device is a device that contains multiple functions in a single solution:
- **DATA LOGGER:** Allows data storage acquired by the system at the next publication on the web
- **WEB SERVER:** It aims to develop web pages and generate content dynamically
- **GATEWAY:** Allows the acquisition of parameters via ModBus protocol (Analyzers, PLC, Acquisition Modules, etc.) up to 32 devices
- **ETHERNET CATCHER:** It allows the passage from Ethernet to a chain of ModBus devices up to 8 simultaneous connections on TCP/ IP in a completely transparent way

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

Dimensions

ENSPECTION

Gatelog

Technical Data Sheet

PROCESSORE	
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
Trasmission speed	configurable up to 115,2 Kbps
Parity	configurable as even/ odd/ space
Stop Bit	configurable as in 1 o 2
Max Distance/ Speed Ratio (recommended) (The maximum reachable distance depends on the number of connected devices, on the type of wiring, on disturbances, etc)	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
Terminals connectable in multipoint	32 max.
TX/RX switching time (RS485)	150 us.
Termination resistors	Can be set at 120 Ohm

CONNECTIONS	
Ethernet	RJ-45
RS-485	Removable screw terminals 3,5mm pitch
Power	Removable screw terminals 3,5mm pitch
Temperature probe	Removable screw terminals 3,5mm pitch

POWER	
Supply voltage	9 ÷ 36 Vdc
Absorption	200 mA max.

[ε]NSPECTION

Gatelog

Technical Data Sheet

INSULATION	
Ethernet/ RS485	1500 Vac, 50Hz, 1 min
Ethernet/ Supply	1000 Vac, 50Hz, 1 min
Supply/ RS485	1500 Vac, 50Hz, 1 min

ENVIRONMENTAL CONDITIONS	
Operating 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	Self-extinguishing plastic
IP degree of container	IP20
Assembly	On DIN rail in accordance with EN-50022
Weight	Approx. 200g
Dimension	4 DIN modules

EMC CERTIFICATIONS	
Immunity	EN 61000-6-2
Emission	EN 61000-6-4