

DATA SHEET

CAL-EDGE-0 GATEWAY

2025 CALMS inc.



CAL-EDGE-0 gateway

The CAL-EDGE-0 device is a highly sophisticated and affordable remote data logger for compressed air systems. Device connects directly to CALMS web application which provides real time access to data from any web browser for any end user and their service partner. It can be configured for majority of compressors and sensors on the market.

Key features and benefits

- > Plug & Play device, easiest and cheapest solution used for remote monitoring and auditing, alarming and reporting, designed for compressed air systems;
- > CALMS provides detailed system analysis with auto-generated efficiency warnings, savings estimates based on best-in-class benchmarks, and high-resolution data logging (up to 1-second sampling);
- > Helps improve your energy efficiency and shows where to save on energy costs;
- > Ability to connect to almost any compressor and sensor;
- > Increases your environmental image;
- > Increases the reliability of your equipment;
- > Robust industrial design.

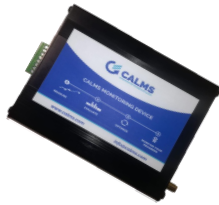
| Specifications | | |
|------------------------|--|--|
| Description | CAL-EDGE-0 | Remarks |
| Hardware | Quad core Cortex-A53 (ARM v7) 64-bit SoC @ 1.5GHz, 1GB DDR2 RAM | |
| Protocol | MODBUS RTU, MODBUS TCP/IP, OPC UA | Up to 20 sensor per one device |
| Interfaces | 1x 10/100 Mbps Ethernet adapter | |
| Analog inputs 4...20mA | 0 | |
| RS485 | Standard: 1x | 2-wire RS485 (half duplex) |
| WEB management | Yes | |
| Min. logging interval | 1 sec (configurable) | |
| Data Storage | eMMC 8 GB | |
| Cloud connection | Mobile 3G/4G / LAN | |
| Operating Range | -25 – 60 C (-13 F – 140 F) | |
| Power supply | 24VDC | Recommended: 50W . Power supply included |
| Cellular modem | LTE EG25-G Module | Depends on network coverage |
| Antenna interface | Standard SMA interface-antenna included | |
| Size | H 30 x W 110 x L 130 mm H 1.18 x W 4.33 x L 5.12 Inches | |
| Weight | 511 g / 1,13 lb | |
| Materials | Enclosure: Aluminum | |
| Mounting | DIN rail or wall mounting | |
| EMC | EN 61000-6-2 EN 61000-6-3 | |
| Approvals | CE / UL / FCC Class A | |

Product information and accessories

Product:

Description:

CAL-EDGE-0



CALMS-EDGE-0 survey device LTE 4G with Modbus RTU & TCP/IP;
 Portable measurement device with Ethernet, RS485 and CAN interface connection
 Supported protocols: Modbus RTU, TCP/IP, OPC UA (without sensors)
 3G/4G Modem SMA with external antenna (with SIM card provided EU/Global);
 1 x Ethernet port 10/100 Base-T (LAN);
 1x RS485 port and 1x CAN port;
 Internal memory eMMC 8GB, optional μ SD 256 GB
 Ambient temperature range: -25°C to +60°C
 Power Supply included 24VDC, 2.1A, 50W;
 Approval UL / CE / FCC Class A

Accessories

Description

CAL-ANTENNA-EXT

Antenna extension cable
 Attenuation: 2.4 Ghz 0.55 dB per meter 5.7 Ghz 0.86 dB per meter
 Diameter: 4.80 mm,
 Cable length: approx. 10 m

CAL-CABINET

Steel cabinet for wall mounting, ready to install CAL-EDGE-0 and modules (not included)
 Steel cabinet size: 380x380x210 with CALMS design
 Power supply: 24VDC, 60W
 Cable glands, terminals, circuit breaker, prewired

CAL-RS485-SHARER

3port RS-485 Port Sharer
 Used to share MODBUS slave data with two MODBUS masters.

SENSORS

Measuring equipment is optional and available under Measurement

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