

DATA SHEET

# CAL-EDGE-0

# GATEWAY

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CALMS AIR 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,<br>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.<br>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<br>H 1.18 x W 4.33 x L 5.12 Inches         |  |
| Weight                 | 511 g / 1,13 lbs.  |  |
| Materials              | Enclosure: Aluminum  |  |
| Mounting               | DIN rail or wall mounting  |  |
| EMC                    | EN 61000-6-2<br>EN 61000-6-3                                       |  |
| Approvals              | CE / UL / FCC Class A  |  |

## Product information and accessories:

| Product:  | Description:  |
|---|---|
| CAL-EDGE-0<br><br> | CALMS-EDGE-0 survey device LTE 4G with Modbus RTU & TCP/IP;<br>Portable measurement device with Ethernet, RS485 and CAN interface connection<br>Supported protocols: Modbus RTU, TCP/IP, OPC UA (without sensors)<br>3G/4G Modem SMA with external antenna (with SIM card provided EU/Global);<br>1 x Ethernet port 10/100 Base-T (LAN);<br>1x RS485 port and 1x CAN port;<br>Internal memory eMMC 8GB, optional μSD 256 GB<br>Ambient temperature range: -25°C to +60°C<br>Power Supply included 24VDC, 2,1A, 50W;<br>Approval UL / CE / FCC Class A |
| Accessories   | Description   |
| CAL-ANTENNA-EXT   | Antenna extension cable<br>Attenuation: 2.4 Ghz 0.55 dB per meter 5.7 Ghz 0.86 dB per meter<br>Diameter: 4.80 mm,<br>Cable length: approx. 10 m   |
| CAL-CABINET   | Steel cabinet for wall mounting, ready to install CAL-EDGE-0 and modules (not included)<br>Steel cabinet size: 380x380x210 with CALMS design<br>Power supply: 24VDC, 60W<br>Cable glands, terminals, circuit breaker, prewired  |
| CAL-RS485-SHARER  | 3port RS-485 Port Sharer<br>Used to share MODBUS slave data with two MODBUS masters.  |
| SENSORS   | Measuring equipment is optional and available under Measurement   |