DATA SHEET

CAL-EDGE-PM

CALMS AIR INC.

CAL-EDGE-PM Permanent Monitoring device

CAL-EDGE-PM is a highly sophisticated and affordable remote data logger for compressed air systems. It is a wall mounted cabinet with the CAL-EDGE-0 device. Device connects directly to the CALMS web application which provides real time access to data from any web browser for any end users and their service partner.

CAL-EDGE-PM is used for small systems for permanent monitoring only, without options like local HMI display, control, SCADA. Optional add-ons include analog and digital inputs.

Key features and benefits:

> The 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;
> Increases your environmental image;
> No need for local operator panels – access from anywhere with tablet or smartphone;
> Robust industrial design.

CALMS

Specifications:

Description	CAL-EDGE-PM	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 sensors per device
Interfaces	1x 10/100 Mbps Ethernet adapter	
RS485	Standard: 1x	2-wire RS485 (half duplex)
WEB Management	Yes	
Min. logging interval	1 sec (configurable)	
Data storage	eMMC 8GB	
Cloud connection	Mobile 3G/4G / LAN	
Operating range	-25°C to 60°C (-13°F to 140°F)	
Power supply	110-230VAC	
Cellular modem	LTE EG25-G Module	Depends on network coverage
Antenna interface	Standard SMA interface-antenna included	
Size	H210 x W380 x L380 mm H 8.27 x W 14.96 x L 14.96 inches	
Materials	Enclosure: Stainless steel	
Mounting	Wall mounting	
EMC	EN 61000-6-2 EN 61000-6-3	
Approvals	CE / UL / FCC Class A	

Accessories:

Product information and accessories	
Product:	**Description:**
CAL-EDGE-PM	Base module CAL-EDGE-PM for Permanent monitoring ONLY! with LTE 4G (designed for small systems monitoring only, HMI & control not possible) Wall mounted Cabinet with CAL-EDGE-0 with Ethernet and LTE 4G with SIM card provided EU or Global
Accessories:	**Description:**
CAL-SIM	SIM LTE (3G/4G) subscription per audit device – charged annually
Optional add-ons:	**Description:**
CAL-DI16 RTU	Expansion 16 channel digital input terminal 24VDC, filter 3.0ms, 2-wire system, MODBUS RTU RS485 – with CALMS config file
CAL-AI8 RTU	Expansion 8-channel analog input terminal 4...20mA, 12bit, 8x 1-wire system, MODBUS RTU RS485 – with CALMS config file