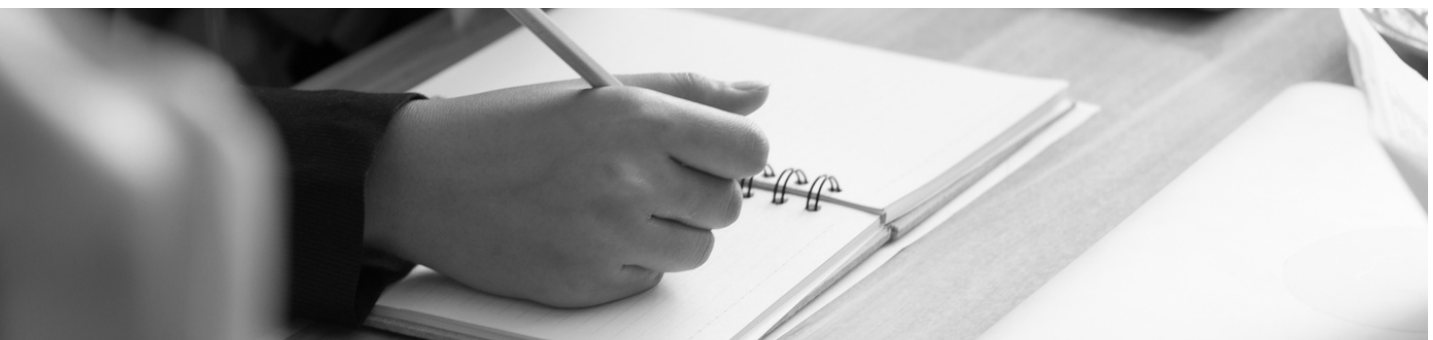# DATA SHEET
CAL-EDGE-PM

CALMS

CAL-EDGE-PM

is a highly sophisticated and affordable remote data logger for compressed air systems. It is a wall-mounted cabinet with CAL-EDGE-0 with Ethernet and LTE 4G with a SIM card provided by EU or global. The 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, or SCADA. CAL-EDGE-PM accepts analog and digital inputs.

BENEFITS

- The easiest and cheapest solution for doing air audit online with independent experts;
- Shows where to save on energy costs;
- Helps improve your energy efficiency;
- Save your time and improve the organization;
- Calculates costs in relation to actual consumption;
- Increases the reliability of your equipment;
- Creates forecast of energy consumption;
- Increases your environmental image;
- Improves the investment process (energy equipment);
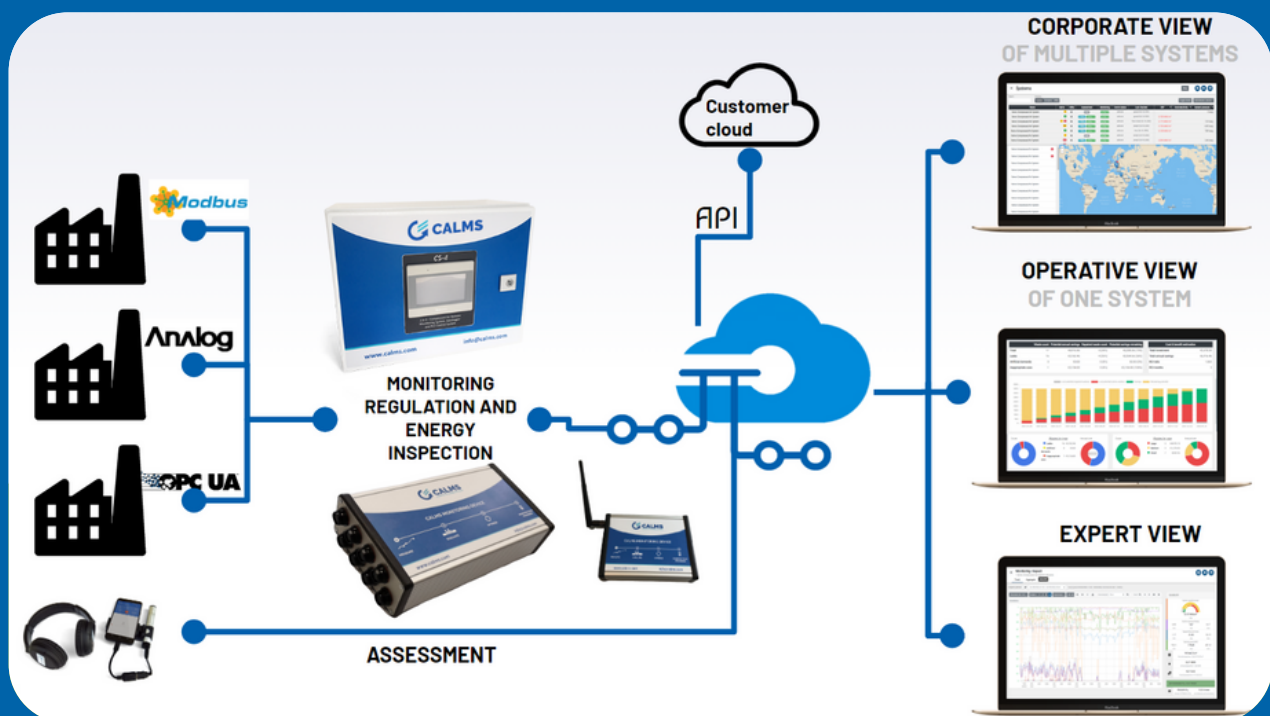- ISO 50001:2011, Energy management systems compliant.

FEATURES

- Plug & Play device, remote monitoring / alarming / reporting / auditing, designed for compressed air systems;
- WEB-based application for total compressed air management;
- Connect with the config to almost any compressor and sensor;
- Data logger for compressed air system provides readings for web-based detailed analysis and simulation tools – 1 sec sample rate;
- CALMS.COM Energy management tools – Specific power, M/T, CUSUM analysis;
- Detailed analysis of compressed air system with auto-generated reporting, warning of poor efficiency with potential savings calculation compared to best-in-class efficiency from CALMS knowledge database;
- SIMULATION module integrated;
- Compressed Air Performance Scorecards; Expandable;
- Secure internet connection between device and CALMS web application;
- Multiple data export options (CSV, XML), and easy online printing;
- Automated monthly reports send by email;
- Alarms & Warnings email or SMS notification including analysis data;
- Multiple access for end users and experienced CA service providers;
- Remote software upgrade capability;
- LTE cellular modem 3G;
- No need for local operator panels – access from anywhere with a tablet or smartphone;
- Robust industrial design.

CALMS AIR INC.

CALMS – PROCESS DIAGRAM

CAL-EDGE-PM includes an edge gateway, antenna interface, modules with AI and DI terminals, and a module for MODBUS RTU. The device has 8 AIs and 16 DIs by default. Edge gateway gathers data from all connected sensors and sends it to the CALMS web application. All measured data are shown on the platform which enables you permanent monitoring of your CAS.

SPECIFICATIONS:

Description		Remarks
Technical specifications:		
Computer	Quad core Cortex-A53 (ARM v7) 64-bit SoC @ 1.5GHz	
Operating Temperature Range	-25°C to 60°C (-13°F to 140°F)	
Power Supply	230VAC	
Size	H210 x W380 x L380 mm	
Materials	Enclosure - Stainless Steel	
Mounting	Wall mounting	
IP rating	IP55	
Communication interfaces:		
Protocols Supported	MODBUS RTU, MODBUS TCP/IP, ADS, OPC UA, Database queries	
Ethernet	1x 10/100 adapter	
RS485	1x Isolated 2 wire RS485	
Cellular Modem	2G/3G/LTE (LTE-M)	Depends on network coverage
Antenna Interface	Standard SMA interface	Antenna included
Cloud Connection	MQTT	
Input specifications:		
Analog Inputs	8 (4...20mA)	Passive or active connection, 12bit, 8x2-wire system
Digital Inputs	16	Filter 3.0ms, 2-wire system
Functional Features		
Web Management	Yes	
Logging Interval	5 sec (configurable)	
CAL-EDGE to CALMS Web Upload Interval	5 min (configurable)	

CALMS AIR INC.

LET'S WORK TOGETHER

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