

2025 CALMS AIR INC.

# DATA SHEET CAL-EDGE-PM



# CAL-EDGE-PM

## PERMANENT MONITORING

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.

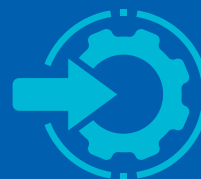
CAL-EDGE-PM is used for small systems for **permanent monitoring only**, without options like local HMI display, control, SCADA. Optional add-ons include analog and digital inputs.



Plug & Play



Monitoring &  
Auditing



Analog &  
Digital Inputs



# BENEFITS OF USING CALMS



## ENERGY MANAGEMENT & EFFICIENCY

- **Energy tools:** Specific power, CUSUM analysis, M/T ratio, duration, threshold graphs
- Detailed efficiency analysis with:
  - **Auto-generated reports**
  - **Warnings on poor performance**
  - **Potential savings vs. best-in-class benchmarks** (CALMS DB)
- **Calculates actual energy costs** based on consumption
- Supports better energy **equipment investment decisions**
- Improves your environmental image
- **ISO 50001:2011 compliant** – energy management systems standard



## WEB-BASED PLATFORM

- **WEB-based application** for holistic compressed air management
- **Secure cloud connection** between device and web application
- **Multiple user access** – for end users and CA service providers
- **Accessible anytime, anywhere**



## MONITORING, LOGGING & VISUALIZATION

- Remote monitoring / alarming / reporting / auditing
- Data logger with **1-second sample rate**
- Detailed **web-based analysis and simulation tools**
- Compressed Air **Performance Scorecards**
- **SIMULATION module** integrated
- **Forecasting** of energy consumption



## DESIGNED FOR AUDITORS & PROFESSIONALS

- **The easiest and most affordable way to conduct online air audits**
- **Save time**, reduce planning complexity, and improve organization
- Increases **equipment reliability** and operational insight



## REPORTING & NOTIFICATIONS

- Automated monthly **email reports**
- Alarms and **warnings via email or SMS**, including analysis data
- **Multiple export options** – CSV, XML
- **Easy online exporting** for audits and documentation



## SCALABLE & INDUSTRIAL-READY

- **Expandable system** – scale as needed
- **Robust industrial design** for demanding environments

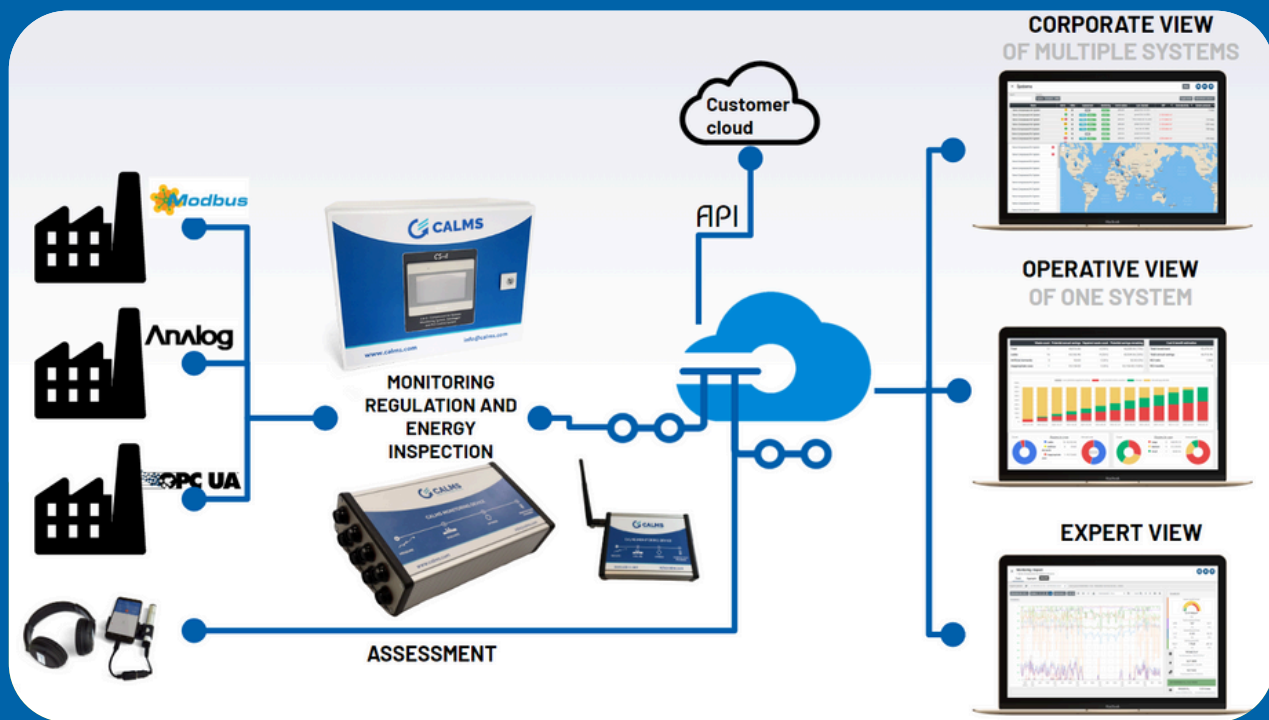
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# WHY CHOOSE CALMS?

- **Developed by compressed air experts** – built on years of field experience and industry knowledge
- **Trusted worldwide** by manufacturers, energy auditors, and service providers
- **All-in-one solution** – from monitoring to simulation and reporting
- **Faster audits, smarter decisions** – transform raw data into clear, actionable insights
- **No hidden costs** or complexity – simple to install, easy to scale, and cost-effective
- **Future-ready platform** – continuously improved with remote upgrades and feature expansions
- **Supports your sustainability goals** – optimize energy use, reduce emissions, and improve ISO 50001 compliance

# 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
<b>Technical specifications:</b>		
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	
<b>Communication interfaces:</b>		
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	
<b>Input specifications:</b>		
Analog Inputs	8 (4...20mA)	Passive or active connection, 12bit, 8x2-wire system
Digital Inputs	16	Filter 3.0ms, 2-wire system
<b>Functional Features</b>		
Web Management	Yes	
Logging Interval	5 sec (configurable)	
CAL-EDGE to CALMS Web Upload Interval	5 min (configurable)	

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# LET'S WORK TOGETHER

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