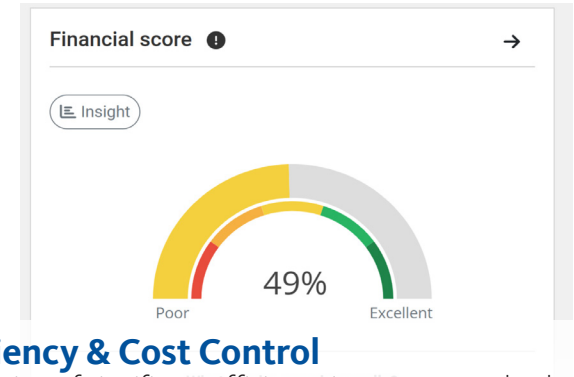
CALMS

Energy Management and Control System

Truth in Compressed Air

BEKO

CALMS® Management Technology



Efficiency & Cost Control

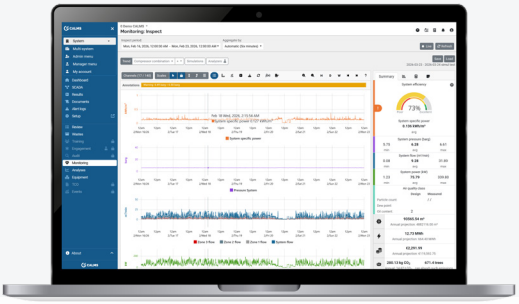
Generation of significant efficiency improvements leads to significant cost reduction. Delivers measurable energy savings.

Transparent Reporting

a transparent system which generates detailed reports for analysis and decision making. Transforms operational data into actionable insights for faster, more informed decisions.

Brand Independent

Integrates, manages, monitors and controls any brands – HOLISTICALLY. One platform for complete system visibility.



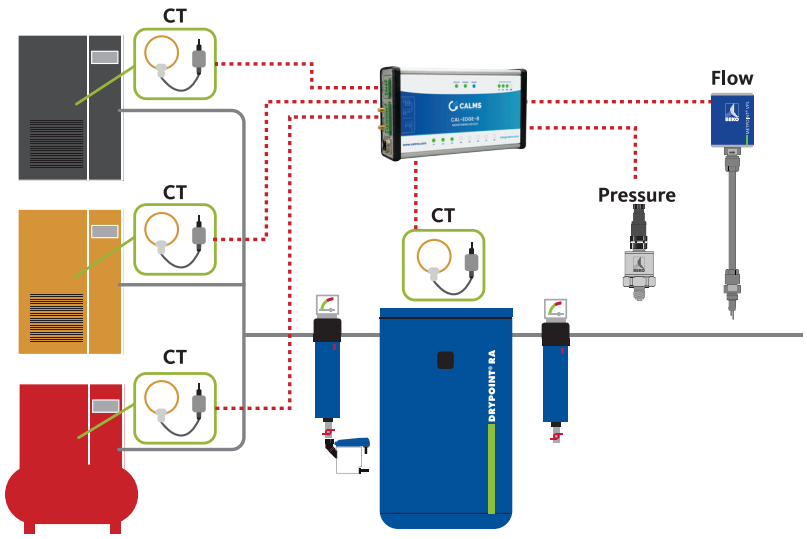
Real-Time Analytics

continuous monitoring and recording of system performance data with predictive maintenance and system optimization.

Data Availabilty

Onsite or remote, your data is always available. Complete visibility across all connected locations.

How it Works



CALMS is an innovative, holistic, brand independent and globally leading Energy Management and Control System designed to optimize compressed air systems, enhancing efficiency and sustainability in industrial settings.

By integrating advanced monitoring, real-time analytics, predictive maintenance and compressor controls – CALMS ensures operational excellence, reduces energy consumption, and minimizes downtime.

It's the go-to solution for businesses seeking to improve their energy management and achieve cost-effective, eco-friendly operations. It is a cloud-based system which is capable to integrate in any Scada platform and is accessible on any device, at any time.

Designed for modern industrial facilities, CALMS is scalable, flexible, and manufacturer-independent, making it ideal for both single-site operations and global organizations with multiple production facilities.

Whether the objective is reducing energy costs, supporting sustainability initiatives, improving reliability, or advancing digital transformation goals, CALMS delivers a centralized platform that connects data, people, and processes to achieve measurable operational and environmental benefits.

CALMS® Management Technology

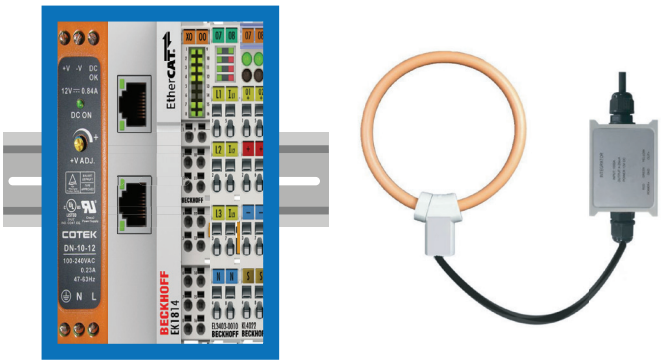
Harnessing the power of real-time data and intelligent automation, CALMS provides unparalleled insight into compressed air system performance. Continuous monitoring of key operational parameters, combined with advanced analytics and predictive diagnostics, allows users to detect inefficiencies, anticipate maintenance requirements, and optimize energy consumption before issues impact production. The result is a smarter, more reliable compressed air system that delivers measurable improvements in efficiency, sustainability, and operational excellence while replacing assumptions with data-driven decision-making.

Product Family and Services

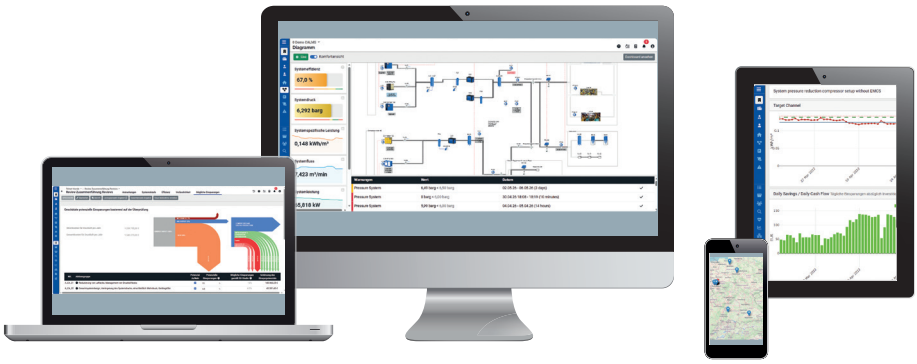
Audit

Permanent Monitoring & Control

Flow Control



Accessories



CALiQ Cloud Based Software and Services

CALMS CAL-EDGE Portable Devices

for audits, survey, assessments and service purpose permanent monitoring for small compressed air systems

- Real-time data logging and monitoring
- Secure cloud-based connectivity
- Access data from any web browser
- Enables data-driven system optimization

CALMS Audit Devices	CAL-EDGE-0	CAL-EDGE-8	CAL-AUDIT-KIT
	Highly sophisticated remote portable data logger for compressed air systems. Connects directly to CALMS web application which provides real time access to data from any web browser. It can be configured for majority of compressors and sensors on the market.	Highly sophisticated portable measurement data logger for compressed air systems, designed for experts and auditors. All the same functionality of the CAL-EDGE-0 with additional 8 analog inputs The device connects directly to CALMS web application which provides real time access to data from any web browser.	Comprehensive audit package designed for advanced data logging, leak detection, and system monitoring in compressors. Users can monitor, analyze, and manage their systems in real-time, from anywhere, at any time. This kit provides a complete solution for data logging. Includes CAL-EDGE-8, Rogowski coils, and can be configured to work with other devices.
Dimensions (HxWxL)	1.18" x 4.33" x 5.12"	2.2" x 4.92" x 9.84"	9.06" x 20.47" x 17.32" (Case)
Power Supply	24 VDC	24 VDC	24 VDC
Operating Temperature	-13°F - 140°F (-25°C - 60°C)	-13°F - 140°F (-25°C - 60°C)	-13°F - 140°F (-25°C - 60°C)
Signal Inputs	MODBUS RTU, MODBUS TCP/IP, OPC UA	MODBUS RTU, MODBUS TCP/IP, OPC UA, 8 x 4-20 mA	MODBUS RTU, MODBUS TCP/IP, OPC UA, 8 x 4-20 mA

CALMS CAL-EDGE PM - Permanent Monitoring and Control

for permanent monitoring of small to large compressed air systems and with BASIC and X control of compressors

- Permanent monitoring and control solution
- Real-time system visibility and analytics
- Integrated compressor sequencing and optimization
- Cloud-based access from any device
- Supports multi-compressor installations

CALMS Permanent Monitoring & Control	CAL-EDGE-PM	CAL-PM-BASIC-4	CAL-PM-X-12
	Highly sophisticated remote data logger for permanent monitoring of compressed air systems. It is a wall mounted cabinet with the CAL-EDGE-0 device with optional added configurable analog and digital inputs up to 32 channels. It is used on small and medium systems, without options like local HMI display, control, SCADA.	For BASIC permanent monitoring and controlling of compressors and equipment in compressed air systems. Basic control of compressors utilizing Rogowski coils. It covers all fields such as remote energy management systems, data logger and compressed air control system. System provides real time access to data from any web browser for end users and their service partner. Designed for small systems up to 4 compressors.	For ADVANCED permanent monitoring and controlling of compressors and equipment in compressed air systems. Advanced control of compressors utilizing Compressor Interface Module. It covers all fields such as remote energy management system, data logger and compressed air control system. System provides real time access to data from any web browser for end users and their service partner. Options for 2 up to 16 compressors.
Dimensions (HxWxL)	8.27" x 14.96" x 14.96"	8.26" x 19.69" x 19.69	8.26" x 19.69" x 19.69
Power Supply	110-230 VAC	100-240 VAC	100-240 VAC
Operating Temperature	-13°F - 140°F (-25°C - 60°C)	32°F - 131°F (0°C - 50°C)	32°F - 131°F (0°C - 50°C)
Signal Inputs	MODBUS RTU, MODBUS TCP/IP, OPC UA	Real-time Ethernet, ADS TCP, Modbus TCP, TCP/IP, UDP/IP, EAP, 8 x 4-20mA	MODBUS TCP/IP, 8 - Digital, 4 - 4-20mA, Customization options

CALMS CALiQ

global leader in software for monitoring, analyzing, and controlling compressed air systems

- Real-time monitoring and analytics
- Cloud access from any device
- Custom dashboards and KPI tracking
- Automated reporting and alerts
- Historical trending and benchmarking
- Scalable for single or multi-site operations

CALMS CALiQ	Audit							
	A	B	XS	S	M	L	XL	XXL
Measurement Period	1 month	1 month	1 year	1 year	1 year	1 year	1 year	1 year
Cloud Access	1 month	1 year	1 year	1 year	1 year	1 year	1 year	1 year
Storage of data after subscription expiration	1 year	1 year	2 years	2 years	2 years	2 years	2 years	2 years
1 month unlimited measurements	yes	yes	yes	yes	yes	yes	yes	yes
Number of measurement channels*	-		15	30	50	80	150	200
Recommended power installed (kW)	-		100	200	1000	2000	unlimited	unlimited
Recommended number of compressors	-		2	4	6	8	16	
Maximum number of users	5	5	5	5	10	15	20	20

**The criteria for determining the system size is the number of all channels (measurements) indicated on the system dashboard and setup.*

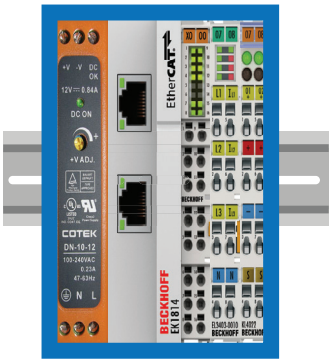
CALMS Accessories

Calms Flow Controller

Controls the air flow and pressure being delivered to the system, thereby reducing artificial demand in the plant. CFC is based on flow control valves used with CALMS CAL-PM-X box for regulation and online optimization purpose.

› Pressure control range - 30-580 psig
› Operating pressure - up to 580 psi
› Pipe Diameter - 2" - 8"
› Temperature - -76°F - 662°F
› Protection class - (EN 60529) IP 65

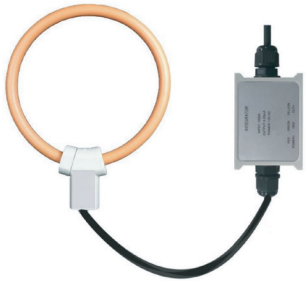
Compressor Interface & Power Module



Connected to compressors and acts as a power meter, monitoring, and control unit.

› 4 digital inputs 24 V DC, filter 3.0 ms, type 3
› 4-channel relay output terminal 125 V AC/30 V DC, 0.5 A AC/2 A DC, potential-free make contacts
› 2 x Analog inputs (configurable, 4-20mA, 0-10V)
› 2 x Analog outputs (configurable, 4-20mA, 0-10V)
› 3-phase power measurement terminal, max. 690 V AC 3~, max. 5 A, with 3x measuring CT transformers x A/5A,
› Power Supply 24Vdc, 1A, 24W
› Current transformer, 3 x split core 500/5A 5VA cl:1

Rogowski Coil



Current transformer connected to equipment to monitor energy consumption and in some cases, connected to CAL-PM devices to provide information for control.

› Output - 4 - 20 mA
› Current Sizes - 100A, 500A, 1000A
› Flexible split coil design for ease of installation

Reliable | Efficient | Innovative

What can we do for you?

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