CORE

METACENTRE CORE:

INTELLIGENT ORCHESTRATION FOR COMPRESSED AIR SYSTEMS

OPTIMISED PERFORMANCE, MAXIMUM EFFICIENCY

Metacentre CORE is the ideal solution for single-location compressed air systems with up to six air compressors. If your compressed air system fits this profile, you've found the right solution—CORE delivers intelligent sequencing, load balancing, and real-time monitoring to maximise efficiency, reduce energy waste, and maintain stable system pressure.

With its 12" colour and touch display, CORE provides clear, real-time visibility into air compressor status, system condition, and air quality leaving the air compressor station, ensuring stable operation and straightforward deployment. Designed specifically for supply-side monitoring, it simplifies compressed air management, making it cost-effective, reliable, and easy to integrate.

CORE'S KEY BENEFITS:

> Supply Side Monitoring -
Metacentre CORE is purpose-built to provide comprehensive monitoring of compressed air generation, delivering real-time insights into asset status and condition, system status and condition, and air quality leaving the compressor station. This allows for better decision-making, optimised air compressor usage, and reduced operational risks

> Modular Expandability -
Metacentre CORE supports up to six air compressor assets, with LINK+ and DRIVE+ modules enabling seamless integration based on air compressor type. This approach allows for scalable, adaptable control, ensuring optimised sequencing for both fixed-speed and VSD air compressors

Additionally, CORE, LINK+, and DRIVE+ feature built-in fallback protection, ensuring continued operation in the event of a communication failure, providing robust system resilience and reliability

> Remote Access & Insights -
Metacentre CORE features a built-in web interface accessible via a PC browser on the same LAN. With the CLOUD+ upgrade, remotely access and monitor your Metacentre CORE system from anywhere. If you need to monitor multiple compressor stations across different physical locations, consider AIRMATICS

> Seamless Integration -
Metacentre CORE Supports MODBUS RTU and MODBUS TCP for key variable exchange but does not offer full API support—AIRMATICS is the solution for advanced data integration

If your requirements extend beyond a single pressure location, involve diverse air compressor technologies, or require multi-location air compressor orchestration, **AIRMATICS** offers a scalable solution for multi-location 'zone control', system balancing, and deep supply and demand side data insights.

AIRMATICS

Visit us at **www.metacentre.eu** to learn more.

EMPOWERING THE COMPRESSED AIR USER.

METACENTRE

TECHNICAL & INSTALLATION DETAILS

PRODUCT OVERVIEW

Metacentre CORE continuously analyses air demand and dynamically adjusts air compressor operation to maintain stable system pressure while minimising energy use.
By intelligently sequencing air compressors, it eliminates unnecessary starts/stops and excessive idling, improving efficiency and reducing wear.

COMPATIBILITY & CONNECTIVITY

> Works with a wide range of fixed-speed and VSD air compressor types and brands
> RS485 daisy-chain communication supports up to six air compressor assets over distances of up to 1,200 meters (4,000 feet). It integrates LINK+ and DRIVE+ modules for streamlined air compressor control, ensuring reliable data exchange and built-in fallback protection for continued operation in case of communication disruptions
> Web interface accessible via a PC browser on the same LAN (or INTERNET with CLOUD+ option)
> MODBUS RTU and MODBUS TCP support allows remote interrogation of CORE system data and status

USER INTERFACE & CONFIGURATION

> 12" full-colour touchscreen display with Core's Configuration Wizard for intuitive setup, plus real-time status and condition monitoring for seamless operation
> Web accessible via a PC browser on the same LAN
> CLOUD+ upgrade to remotely access and monitor your Metacentre CORE system from anywhere

INSTALLATION & COMPATIBILITY

> **Mounting :** Wall mounted (using supplied wall fixing kit)

> **Power Requirements :** 100-240V, 50 / 60Hz AC, 70 watts

> **Air Compressor Compatibility :**
Fixed-speed (via LINK+),
Variable Speed (via DRIVE+)

> **Connection :** RS485 daisy-chain, Wired LAN connection using an RJ45 connector

> **Support :** Comprehensive online guides and paid assistance service available for remote commissioning support

TECHNICAL SPECIFICATIONS

Feature	CORE
Communication	**Control:** RS485 daisy-chain **Monitoring:** Web / LAN (or internet with CLOUD+ option) **Remote interrogation:** MODBUS RTU or MODBUS TCP
Ingress Protection	IP65 / NEMA 4
Fallback Protection	Yes
Operating temperature	TBC °C / TBC °F
Weight	TBC kg / TBC lb
Dimensions (mm)	389.4 (W) x 349.3 (H) x 144 (D)
Dimensions (inch)	15.3 (W) x 13.8 (H) x 5.7 (D)
In the box	CORE, Wall mount kit, 2 x 0 – 16 Bar (0 – 232psi) pressure sensors

KEY CONSIDERATIONS FOR INSTALLERS

> **Basic electrical knowledge is required -** this is not a plug-and-play device!

> **Local electrical regulations must be followed,** including correct fusing and safety protocols

Visit **www.metacentre.eu** to learn more or call:

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