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4.0 INDUSTRY

DIAVIB-PRO

ASSET MONITORING SYSTEM

PREDICTIVE MAINTENANCE AND VIBRATION ANALYSIS



- Supports the CUBE triaxial vibration sensor
- Integrates CEMB vibration monitoring systems
- Correlates vibrations with process measurements
- Manages the most common communication protocols
- Compliant with cybersecurity regulations

SAVINGS
Reduce consumption
Lower operating costs
Eliminate insurance costs

MORE PRODUCTIVITY
Prevent problems
Extend service life
Improve efficiency

TARGETED MAINTENANCE
View status
Identify problems
Reduce external interventions



NEW

SIMPLE INSTALLATION, IMMEDIATE DIAGNOSIS, MAXIMUM RELIABILITY: DIAGNOSIS AND MAINTENANCE BECOME INTELLIGENT

CE UKCA

CEMB
VIBRATION EQUIPMENT

DIAVIB-PRO ASSET MONITORING SYSTEM

DIAVIB-PRO is a turnkey system for plant monitoring and predictive diagnosis. It has a local FIFO memory of 25GB and the ability to save measurements based on time or events, enabling analysis and visualization of trends, FFT, Waveform, and Orbits over long periods.
The PROVIB analysis software is included in the system, does not require any license, and can be updated locally or remotely. It is designed for Cloud use, with the latest security certificates and advanced AI algorithms.
DIAVIB-PRO is simple and modular: it works both in stand-alone mode, directly connecting up to 8 **CUBE** triaxial sensors, and by interfacing other **DIAVIB** control units via Ethernet, expanding its capabilities

NOT JUST VIBRATIONS:

DIAVIB-PRO correlates vibrations and process measurements: The system acquires every physical quantity from field sensors through communication protocols and analog and digital I/O.



Vibrations



Power



Temperature



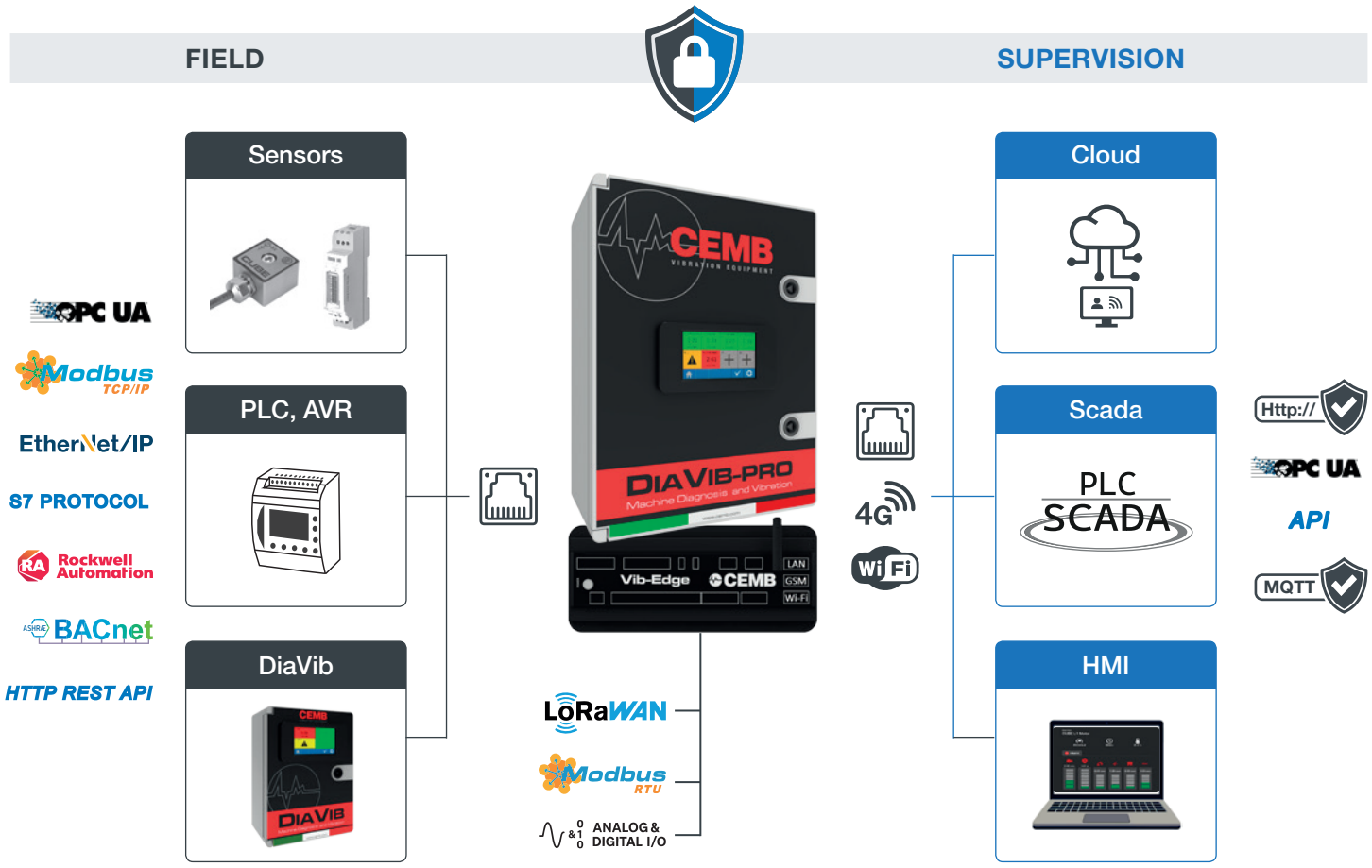
Flow rate



Lubrication

INTERFACE WITH SUPERVISORS, PLC, AND FIELD SENSORS

The core of DIAVIB-PRO is VIB_EDGE, a powerful edge computer that offers large memory capacity, I/O, communication ports, and an integrated web-based user interface.In addition to common serial ports, it features 2 RJ45 Ethernet ports and Wi-Fi: the supervision network and the field are separated and protected. DIAVIB-PRO implements the most common and secure communication protocols.



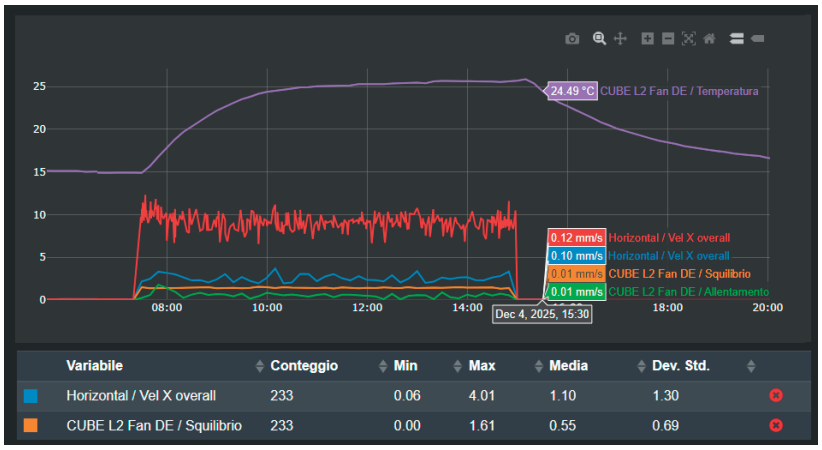
INSIDE DIAVIB-PRO:
PROVIB VIBRATION ANALYSIS DASHBOARD

PROVIB is the web-based vibration analysis software integrated into VibEdge. It does not require licenses or installations; simply connect to the Ethernet port of **DIAVIB-PRO** and launch the web browser to analyze the machine with an intuitive and immediate interface that simplifies even the most complex vibration analyses. By activating the Cloud subscription, it is possible to access the system remotely via PC or smartphone, receive SMS or email alerts, and manage updates and new features released. The system uses dual-key security and allows three levels of password-protected access.

DIAGNOSTIC



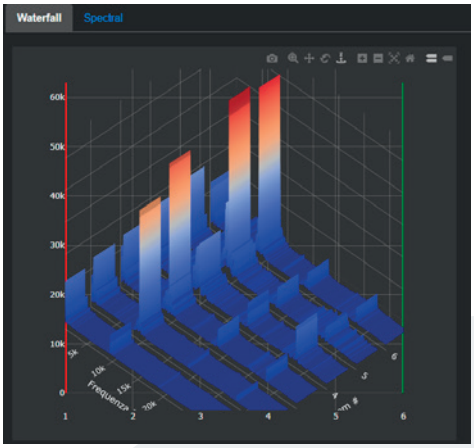
TREND



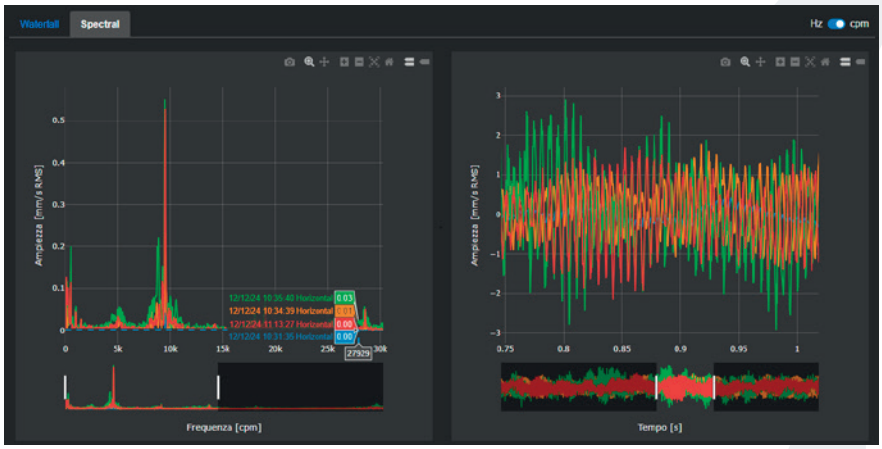
FFT



WATERFALL



WAVEFORM



AND MUCH MORE...

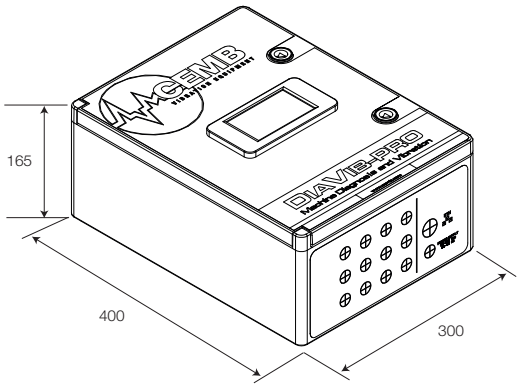
- Machine synoptic view Vibration
- Orbit analysis
- Threshold and delay settings Data
- Export in .XLS format
- Customization of logic and graphs
- Navigation of measurements over time
- Management of saving criteria
- Direct device access via VPN

Note: Images are for reference and not binding; CEMB S.p.A. reserves the right to make improvements to the listed products.

ORDERING INFORMATION

DIAVIB-PRO / A ☐ / B ☐

A: DISPLAY	B: MODEM 4G*
0: No Display	0: No Modem
1: 4.3” Touch display	1: With integrated Modem



*Note: In case of Modem, the SIM card is not included and must be provided by the customer

INSTALLER FEATURES

Power Supply	110 - 230 VAC (1A) - 50/60 Hz
Dimensions	400x300x165 mm
Material	ABS and polyester
Chemical and UV resistance	Excellent
Color	RAL 7035 grey
Protection	IP 54
Temperature	- 35°÷ -70°C

ASSEMBLE AND CONFIGURE YOUR DIAVIB-PRO SYSTEM

Component		Description	Codice
	DIAVIB-PRO Control unit	Control unit for machine/plant diagnosis. The standard configuration includes the management of two CUBE sensors (to be purchased separately). The system can be expanded to manage up to eight CUBE sensors locally	DIAVIB-PRO
	DIAVIB Basic Cable Gland Kit	The kit includes 3 standard cable glands + 1 Ethernet wall pass-through	87SE085130
	CUBE	Triaxial vibration sensor for machine diagnostics. See CUBE data sheet for available models, cables, and related accessories	CUBE/0/0/0/0
	DIAVIB Expansion Kit	Includes CUBE SWITCH dual-channel, terminal blocks, and related cable glands to manage 2 additional CUBEs beyond the standard ones	87SE085131

INDIVIDUAL COMPONENTS FOR EXISTING PANELS:

Standard components for customized installations, such as machine control panels or existing systems

	VIB-EDGE	VIB-EDGE device for data acquisition, storage, multiprotocol communication & IoT	9804000167
	VIB-EYE	4.3” touch display panel for the visualization of vibration values and alarm thresholds	9801000119
	CUBE-SWITCH	Dual-channel Ethernet SPE–RJ45 switch for DIN-rail mounting	39IN078970

CLOUD SUBSCRIPTION

	Cloud	Annual subscription to the CLOUD service	VS9001250

CEMB BALANCING MACHINES

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