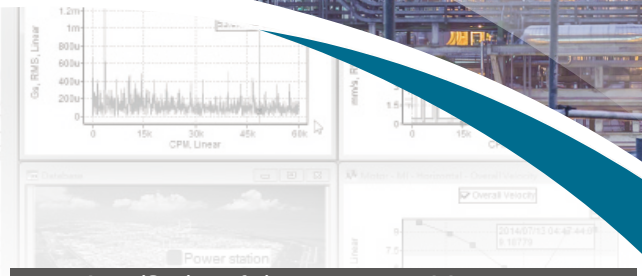
G-TECH



CoMoLive

Online Health Monitoring System

CoMoLive adopts the concept and technology of "Industry 4.0 smart factory" by continuously monitoring critical machines to prevent costly unscheduled shutdowns. CoMoLive collects important parameters of rotating machines through cables, optical fibers, or wireless networks and manages the installed VimoNetX4 vibration measurement modules or ThermoMax temperature measurement modules, while providing you with real-time information about your machine's condition. Additionally, OPC and Modbus servers can optionally share archive data to an enterprise database or DCS system for further data processing and application.



Specifications of CoMoLive software

Operational modes	Database, Plot and Report
Measurement types	Overall acceleration, Overall velocity, Overall displacement,
	Crest factor, Overall bearing, Time waveform,
	Power spectrum, Cepstrum, Envelope spectrum, RPM,
	Temperature and Process parameters
Alarm types	Overall & Band alarm, edited by category
Fault frequency	Bearing frequencies, Gear frequencies or User defined
Chart types	Trend, Time waveform, Spectrum and 3D waterfall and
	Waterfall with band trend, Graph, Orbit, Spectrum fault
Cursor types	Single (multiple), Harmonic, Dual, Side band, Stay on peak
Diagnosis tools	Show/hide fault frequencies or alarm levels on the plot
Bearing condition	Crest factors and true peak values
Real-time data display	Overall: 1 sec.
Minimum time span (Log)	Overall: 1 Sec., Spectrum: 1 min.
Measurement schedule types	Normal schedule and alarm schedule
Report types	.xls, .docx, .pdf
Supporting third-party software	OPC server, Modbus server, and Complete bearing database

General Specifications of VimoNet X4-CM modules

Input range	±5V
Maximum input voltage	±10V (option)
Coupling	AC, DC, IEPE (4mA / 20V)
A/D resolution	24 bits
Max sampling rate	102.4 kHz
Max bandwidth	40 kHz
Input impedance	1 MΩ
Ethernet output / Number	Ethernet / RJ45 x 2
Flash memory	32G
Acceleration overall	10Hz-10kHz, 2Hz-1kHz (±5%)
Velocity overall	10Hz-5kHz, 10Hz-1kHz, 2Hz-1kHz (±5%)
Displacement overall	2Hz-1kHz, 10Hz-1kHz (± 5%)
Band passed acceleration overall	2kHz-10kHz (±5%) ISO-TR-17243-1
Relay outputs	Normal close, 60Vp / 30VDC
Data types	Overall, Time waveform,
	Power spectrum
Power supply	DC 24V
Power consumption	8W
Working temperature	-10˚~ 60˚C
Multi-VimoNet synchronized	Via fiber (sc type 1310nm), maximum
	device & distance = 8 sets, 1km
Installation mechanism	Din rail type

General Specifications of ThermoMax modules

Analog input / Channel number	RTD PT100 / 8 CH
Temp. measuring range	-20˚~ 140˚C
ADC resolution	24 bits
Max. Data rute	2 data/sec.
Resolution	0.1˚C
Ethernet output / Number	Ethernet / RJ45 x 2
LED	LED x 8 pcs (ON: Sensor connecting)
Power voltage / Consumption	24VDC / 2.4W (max).
Device operating temperature	-10˚~ 60˚C
Mounting / Dimensions / Weight	DIN rail type / 45x114x121mm / 250g

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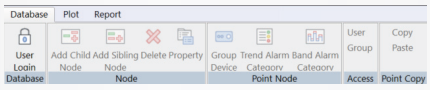
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Three Operating Modes

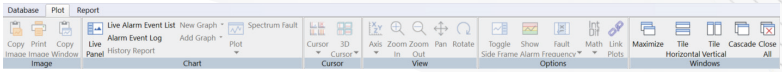
Database Mode :

Configure machine databases, monitoring points, alarm conditions, and fault frequency settings.



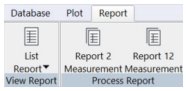
Plot Mode :

View and analyze real-time or historical spectra and time waveforms for machine diagnostics and trend analysis.



Report Mode :

Create customized reports using the built-in Report Setup Wizard.



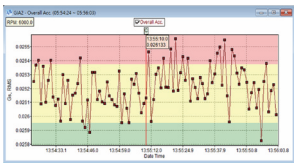
Measurement Types

Overall Indicators

- Overall Acceleration
- Overall Velocity
- Overall Displacement
- Crest Factor
- Overall Bearing
- Confidence Value
- Process Parameters — temperature, current, power, and other data from customer PLC/OPC systems

Dynamic Data

- Amplitude
- Time Waveform
- Power Spectrum
- Cepstrum
- Envelope spectrum



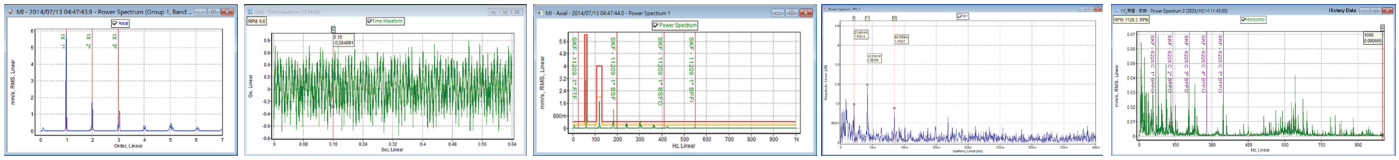


Chart Types

Supports: Trend Chart, Time Waveform, Spectrum, 3D Waterfall, Band Trend Waterfall, Orbit Plot, Spectrum Fault Chart

