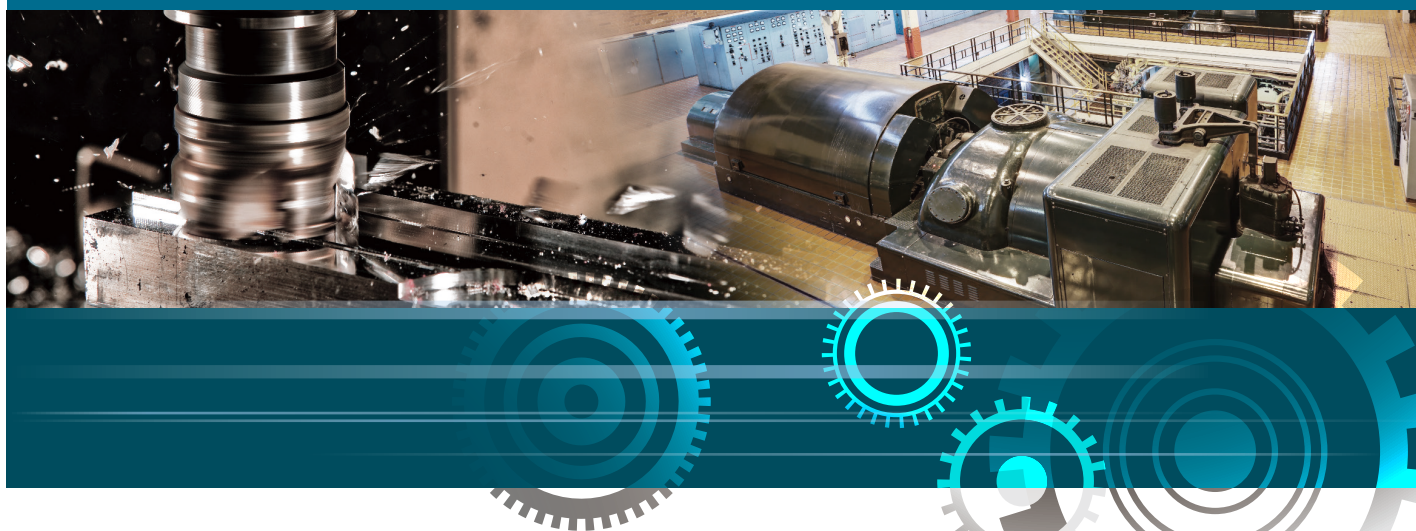


# VimoNet X4

4-Channel Dynamic Signal Data Logger & Transmitter / Spectrum Analyzer



## Test & Measurement

- 4-channel synchronous analog inputs
- 1 TTL tachometer input channel
- Ethernet digital data output:
  - > Overall vibration value / Time waveform / Spectrum analysis
  - > Multi-device synchronization, expandable up to 32 channels
- Compatible with NOVIAN spectrum analysis software
- Supports online monitoring and predictive maintenance systems



## Condition Monitoring

- 4-channel synchronous analog inputs
- 1 TTL tachometer input
- Multiple digital / analog I/O interfaces for controller communication:
  - > 8 digital input channels
  - > 8 overall value analog outputs
  - > 8 alarm relay outputs
  - > 1 high-speed machine crash detection relay (response time < 1 ms)
- PLC integration for real-time process monitoring
- Compatible with monitoring systems and databases for big data analytics



## Features

- **Multi-channel Dynamic Measurement**

Equipped with four analog input channels supporting accelerometers, displacement sensors, and more, enabling simultaneous multi-channel dynamic signal acquisition.

- **Digital Data Processing**

Built-in microprocessor, memory card, and network interface. Enables real-time front-end computation and storage, with data transmission to cloud systems.

- **Dynamic Measurement Type (TM)**

Remote mode: functions as a dynamic data acquisition card (DAQ)

Standalone mode: operates as a data logger and transmitter

- **Condition Monitoring Type (CM)**

Provides digital and analog I/O interfaces with alarm trigger contacts. Connects with PLCs and controllers to enable intelligent manufacturing.

## Specifications

| Type                       |                                   | Test & Measurement                                                                                                                  | Condition Monitoring                                      |
|----------------------------|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|
| Analog Input               | Number of Channels / Input Range  | 4 channels / $\pm 5$ V ( $\pm 10$ V optional)                                                                                       |                                                           |
|                            | Coupling                          | AC / DC / IEPE (4 mA, 20 V)                                                                                                         |                                                           |
|                            | Bandwidth / Maximum Sampling Rate | 20 kHz / 102.4 kS/s                                                                                                                 |                                                           |
|                            | Resolution / Noise                | 24-bit / $< 55$ $\mu$ Vrms                                                                                                          |                                                           |
|                            | Input Impedance                   | 1 M $\Omega$                                                                                                                        |                                                           |
| TTL Tachometer Input       |                                   | 1 channel, max. frequency 10 kHz                                                                                                    |                                                           |
| Digital Input              |                                   | —                                                                                                                                   | 8 channels, 0–24V                                         |
| Analog Output              |                                   | —                                                                                                                                   | 8 channels: current type (4–20mA) or voltage type (0–10V) |
| Alarm Relay Output         | Number of Channels                | —                                                                                                                                   | 8 alarm contacts + 1 collision detection contact          |
|                            | Rated Power Supply                | —                                                                                                                                   | 0.1A 24VDC                                                |
|                            | Response Time                     | —                                                                                                                                   | 10ms (collision detection contact $< 1$ ms)               |
|                            | Contact Type                      | —                                                                                                                                   | normally closed (NC)                                      |
| Digital Data Transmission  |                                   | Ethernet, RJ45 $\times$ 2                                                                                                           |                                                           |
| USB                        | TYPE-A                            | USB Flash Drive                                                                                                                     |                                                           |
|                            | Micro-AB                          | +5 V power supply / data                                                                                                            |                                                           |
| Multi-unit Synchronization |                                   | Optical fiber connection (SC, 1310 nm), synchronization of up to 8 units,                                                           |                                                           |
| System Information         |                                   | transmission distance up to 1 km                                                                                                    |                                                           |
|                            | Processor                         | OMAP-L138 @ 456 MHz                                                                                                                 |                                                           |
|                            | Data Storage Capacity             | 32 GB                                                                                                                               |                                                           |
|                            | Data Types                        | Time waveform, spectrum, overall vibration values (displacement, velocity, acceleration in accordance with ISO-TR-17243, ISO-10816) |                                                           |
|                            | Operating Temperature             | -10°C to 60°C                                                                                                                       |                                                           |
|                            | Dimensions                        | 173 $\times$ 113 $\times$ 56 mm                                                                                                     | 163mm x 108mm x 55mm                                      |
|                            | Mounting Method                   | DIN rail mounting                                                                                                                   |                                                           |
|                            | LED Indicators                    | LED indicators: Green – Power / IEPE enabled; Red – Fault                                                                           |                                                           |
|                            | Power Consumption                 | 4 W                                                                                                                                 | 8W                                                        |
|                            | Power Supply Type                 | DC+24V                                                                                                                              |                                                           |

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