Centralized intelligence VM600

Machinery protection

Vibration and dynamic channels

MPC4 card

- Four dynamic channels (e.g. for vibration, pressure, etc) and two tachometers
- Digital broad-band and tracking filters
- Front panel BNC connectors for easy analysis of raw signals
- Power supply for IEPE accelerometers, proximity and other sensors
- Four 0-10V or 4-20mA outputs
- Four relay outputs, assigned by software to alarm signals

Temperature and plant process channels

AMC8 card

- Eight channels with software-selectable functions: thermocouple, Resistance Temperature Detector (RTD), current and voltage inputs
- Analog signal inputs: 0-25mA and 0-30V on all channels
- Cold Junction Compensation (CJC) sensor processing on two selectable channels
- User-defined polynomial coefficients for non-linear compensation
- Eight 0-10V or 4-20mA outputs
- Eight relay outputs, assigned by software to alarm signals

Real-time measurement and monitoring

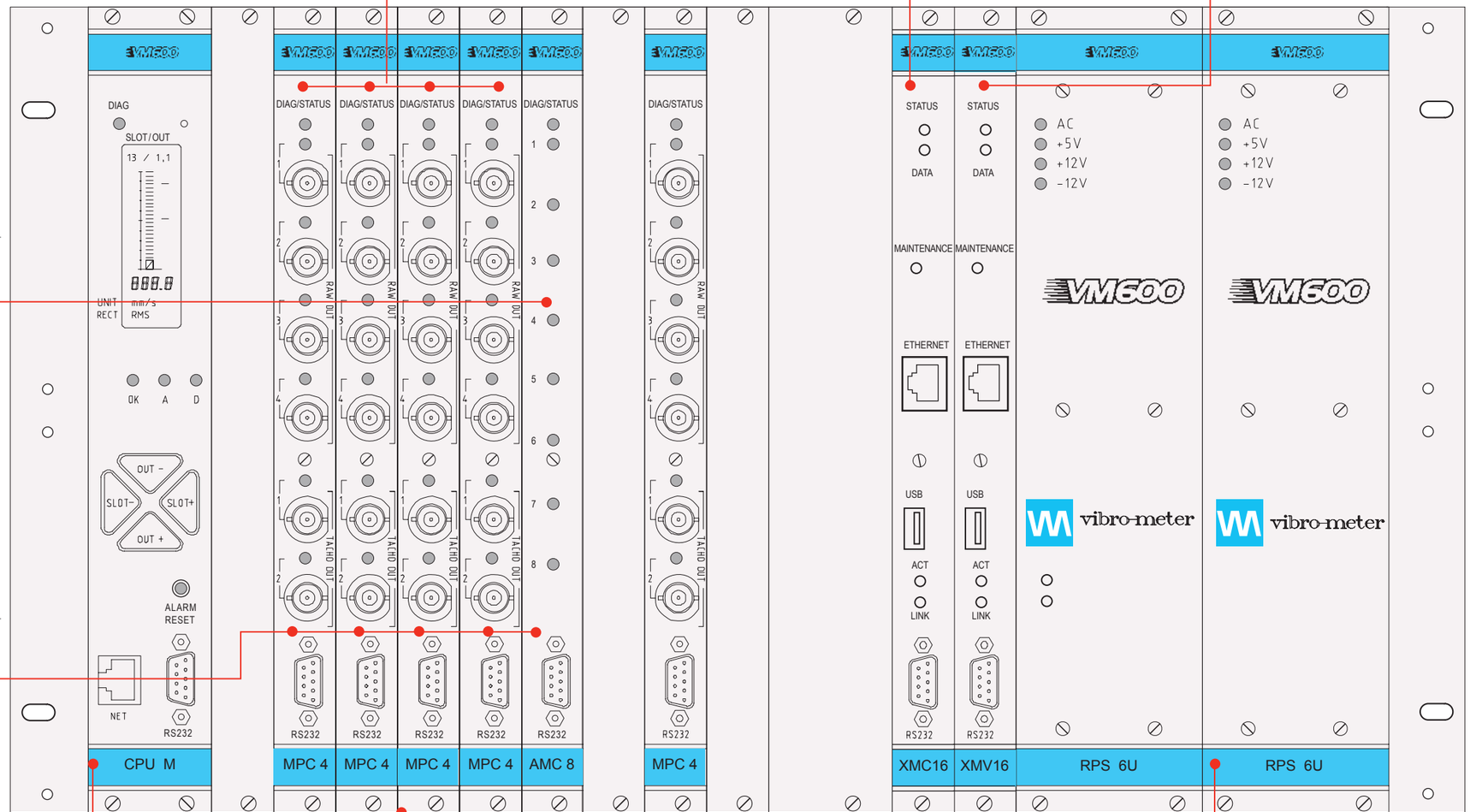
MPC4 and AMC8 cards

- State-of-the-art DSP technology
- Fully software configurable via serial or Ethernet interface
- Programmable and adaptive levels: alert, danger and line check
- Front panel LEDs showing monitoring status and alarms

User-friendly machinery protection software

MPS1 and MPS2

- Easy-to-use, standalone graphical interface
- Connects to the VM600 through a serial or Ethernet interface
- Configures VM600 hardware (installed modules) and programming functions
- MPS2 allows operators to display real-time values (bar graphs and strip charts), trend and long-term data average charts



Network communications and micro display

CPUM module

- Accessibility through Ethernet and serial ports
- Manages configuration of all modules with external PC
- Front-panel LCD bar-graphs and LEDs
- Levels and status display

Backplane, no internal wiring

ABE04x 19-inch, 6U rack

- VME digital bus
- Raw bus line shares input signals between cards
- Open collector drives relays
- Tacho bus shares rotating speed information
- Standard for cabinet installation
- EMC-compliant design, immune to EMI
- CE and CSA-certified
- Separate circuits with 2.1kV insulation (compliant IEC/CEI 60255-5)

Combustion monitoring

XMC16 and XIO16T cards

- Accepts and processes signals from dynamic pressure sensors

Condition monitoring

XMV16 and XIO16T cards

- Accepts and processes signals from accelerometers and proximity probes

Hot swappable

To make maintenance easier, rack power can stay on when adding or removing MPC4, AMC8, XMV16 or XMC16 modules, and cards automatically reconfigure based upon the saved settings.

Redundant power supply

RPS6U module

- Highly reliable: true redundancy (dual, crossed between power modules and mains lines)
- AC or DC power input
- Power status relays

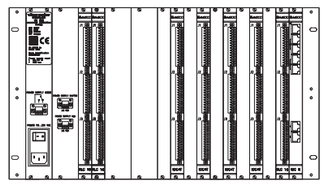
New XMV16 and XMC16 cards

- Designed for operation and configuration with VibroSight software
- 16 dynamic channels and four tachometer channels, all individually configurable
- Simultaneous data acquisition on all channels
- Up to 20 configurable processed outputs per channel
- High-resolution FFT up to 6,400 lines
- Internal card processing cycle duration as short as 100 milliseconds
- Configurable asynchronous and synchronous sampling
- 24-bit data acquisition with data quality checks
- Five configurable severities per processed output and eight detection levels with hysteresis and time delay
- EMI protection on all inputs
- Direct gigabit Ethernet communication on every card

Relay outputs on the rear of rack

RLC16 module

- Flexible comprehensive Boolean voting logic combinations
- 16 SPDT relay outputs



Process complex Boolean equations

IRC4 module

- 86 discrete inputs
- 16-bit microcontroller
- High level of configurability
- Four DPDT or eight SPDT relay output
- Up to eight specific logic equations
- AND, OR, NOT or VOTE logical operators
- Fully software configurable
- Non-volatile configuration
- Smart LED indicators
- Embedded communication port