

The **CM-8X** by SmartSystems is **THE configurable, modular, fully supported** on-line system for industrial vibration monitoring and analysis.

CM-8X with **SpectraScope™ On-Line** and **PMOPS** provides a unique combination of usability and diagnostic power.

Fully configurable data acquisition and network distributed operator interface ensure that essential equipment condition data is available to **the right people at the right time**.



SpectraScope™ On-Line is a software interface for control of data acquisition.

SpectraScope™ PMOPS is a network distributed graphical user interface, for easy observation of alarm conditions and vibration data.

The optional **SpectraScope™ MCM** allows users to design and build custom analysis for machine fault diagnostics.

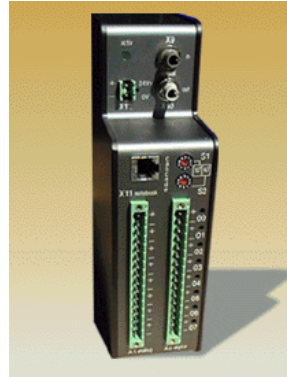


specifications and prices are subject to change

ICP® is a registered trademark of PCB PIEZOTRONICS, INC.
SpectraScope™ is a trademark of SPECTRAL VISUALIZATION AND DEVELOPMENT INC.
VALMET™ is a registered trademark of Metso Paper, Inc.

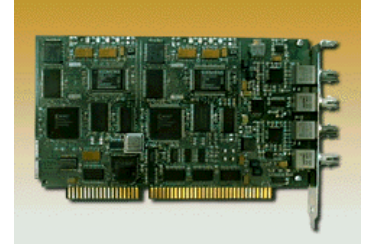
SmartSystems International Inc.
A Division of Bretech Engineering Ltd.

CM-8X Vibration Monitoring System



CM-8XM daq module

- **Input**
8 ICP® + 8 binary
- **Output**
multi-mode 62.5/125µm ST-ST, system status leds
- **Sample Rate**
up to 25 kHz
- **Dynamic Range**
114 dB (14 bit A/D)



CM-FOC4 fiber optic interface

- **Input**
4 TX/RX fiber optic port pairs
- **Command Control**
of up to 96 CM-8XM per TX/RX fiber port pair

TECHNICAL SUPPORT

- **Program Setup**
Certified Vibration Specialists will configure the vibration monitoring database, including machines, measurement points, analysis parameters, and alarm conditions.
- **Onsite Training**
Customized onsite training will ensure that users clearly understand the fundamentals of vibration monitoring and analysis, as well as features and operation of the instrument and software. To ensure overall success of the monitoring program, technology awareness training may be provided to planners, managers, and engineers.
- **Remote Support**
Certified Vibration Specialists will connect to the database server, using a secure VPN connection, for review of user acquired measurements, database configuration / maintenance, and troubleshooting. Remote analysis and reporting may be provided on periodic and/or as required basis.

Dispatching machine condition alarms and monitoring data electronically to our 24/7 Support Centre ensures cost-effective and reliable access to vibration experts, whenever required.



P O Box 2331 • 49 McIlveen Drive • Saint John, NB • Canada • E2L 3V6
tel: (506) 633 1774
fax: (506) 633 7460

SmartSystems@bretech.com

CM-8X Vibration Monitoring System

Model CM-8XM daq module • Technical Specifications

Physical / Environmental		
	Dimensions	187 mm H X 54 mm W X 137 mm D
	Weight	0.8 kg
	Power Requirements	+24 VDC (± 10%)
	Temperature Range	0 to 60°C, operating
(8) Analog Channels		
	A/D converter resolution	8 X 14 bit
	Dynamic Range	114 dB
	Gain Range	0 to 63.5 dB programmable in 1.5 dB increments
	Input Impedance	500 kΩ
	Anti-Alias Filter	100 Hz to 20 kHz, programmable
	Electrical Isolation	1.5 kV channel to channel, channel to ground
(8) Digital Channels		
	Measurement Range, log.0	10 V abs
	Measurement Range, log 1	± 10 to 100 V
	Peak Voltage	± 100 V
	Input Impedance	100 kΩ
	Electrical Isolation	1.5 kV channel to channel, channel to ground
Front Connectors		
	Analog Inputs	2X 12 pin Phoenix connector (a-b-shield)
	Digital Inputs	16 pin Phoenix connector
	Fiber-Optic	1 Tx + 1 Rx
	Power Supply	2 pin Phoenix connector 24 VDC
	LED	operating status indicator
Data Transmission		
	Sample Rate	up to 25 kHz
	System Status	analog channel open / short circuit fiber-optic ring open circuit

specifications and prices are subject to change

ICP® is a registered trademark of PCB PIEZOTRONICS, INC.
SpectraScope™ is a trademark of SPECTRAL VISUALIZATION AND DEVELOPMENT INC.
VALMET™ is a registered trademark of Metso Paper, Inc.

SmartSystems International Inc.
A Division of Bretech Engineering Ltd.

P O Box 2331 • 49 McIlveen Drive • Saint John, NB • Canada • E2L 3V6
tel: (506) 633 1774
fax: (506) 633 7460

SmartSystems@bretech.com

