

PRODUCT DATA SHEET

Structural Monitoring System (SMS)

General Purpose Structural Monitor and Machine Protection System



SYSTEM DESCRIPTION

4-20ma Structural Monitoring System with Data Collection, Alarming, Historical Trending and Data Storage. Accepts all sensors and signal sources using 4-20ma current loop.

FEATURES

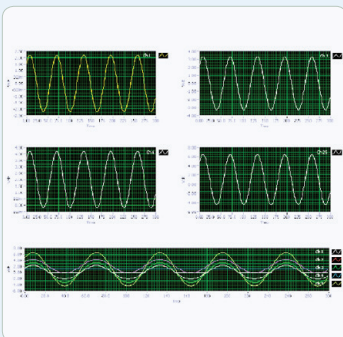
- 32-256 Channels Real Time - High Sampling Rate
- 8-16 Digital Outputs for Alarms
- 8-16 Digital Inputs
- Ethernet Output for Networks and Control Systems
- Inputs - 4-20ma or Voltage, 2-wire, 3-wire
- Configurable Software Package for Monitoring, Alarming and Historical Trending
- Battery Backup

SMS SOFTWARE

SMS Software is configurable for Data Alarming and Trending Analysis. It is capable of sending alarm reports remotely via e-mail, with the Ethernet system fully integrated into control systems.

TRIGGER INPUT

Can be triggered by AE System alarm. Trigger causes data storage at high speed with programmable pretrigger.



OPERATING SPECIFICATIONS

Analog Inputs

Input Channels 64 / 128 / 256
 Input Configuration Current or Voltage,
 factory set in groups of 8
 Current Input Ranges 20mA full scale
 (for use with 4-20mA current loops)
 Voltage Input Ranges..... $\pm 10V$, $\pm 5V$, $\pm 1V$, software selectable
 Current Input Impedance 250 Ω
 Voltage Input Impedance 1 M Ω
 Maximum Safe Current Input Level $\pm 40mA$
 Maximum Safe Voltage Input Level $\pm 12V$

Digital Inputs

Input Channels 8 / 16
 Logic Threshold, High Level $> 2.0V$
 Logic Threshold, Low Level..... $< 0.8V$
 Maximum Safe Input Level -0.5 to $+5.5V$
 ESD protected to 15kV

Measurement

Maximum Sample Rate 1000 samples per second,
 all channels active
 Resolution 16 bits

Physical & Environmental

Size 19" Rackmount 4U / 30" x 20" x 10" NEMA 4
 Weight 20 lbs / 45 lbs
 Operating Temperature $-25^{\circ}C$ to $+50^{\circ}C$
 Storage Temperature..... $-40^{\circ}C$ to $+80^{\circ}C$
 Relative Humidity 20 to 90%, non-condensing, Operating
 10 to 95%, non-condensing, Storage
 Input Voltage 88-264VAC, 47-63Hz
 Power Consumption 200W/400W Max.
 Output Power for Sensors +24V
 Maximum Total load 2A per 64ch

Certifications



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