Mechanalysis (India) Ltd
www.mechanalysisindia.com
Category: Transmitters

PRODUCT SPECIFICATION

Machinery Signal Transmitter - (Vibration) Model MIL7200

The model MIL7200 is a DIN Rail Machinery Signal Transmitter that converts rotating machinery vibration measurements to industry standard 4-20mA isolated (galvanic). It simultaneously provides Time Waveform output at BNC sockets for FFT vibration analysis as a standard feature. This high integrity transmitter is suitable for ID, FD, PA Fans, Mill Motors, Boiler Feed Pumps, Blowers, Compressors and General Plant Machinery. When linked to PLCs they will provide warning and trip signals. Model MIL7200 can be field mounted near the measurement point in a suitable cabinet or in a control room panel.

The design allows the sensor sensitivity to be matched with the MST in the event that its calibration and output changes as the sensor ages. Unlike loop powered accelerometers, the MIL7200 separates the 4-20mA conversion from the sensor thus offering a wider range of sensor types, measurements and machine temperature ratings.

Features of the MST:

1. *Dual Channel vibration signal converter to 4-20mA, Isolated (Galvanic) output per Channel*
2. *RS485/Modbus options available*
3. *Independent and redundant power supply available for up to eight modules*
4. *DIN Rail Mounted allowing multiple systems assembly*
5. *Time Waveform signal output at BNC socket for FFT analysis*
6. *Accepts most sensor types and sensitivities*

MIL Machinery Signal Transmitters measure any one of three vibration parameters depending on the sensor selected. Below is a self selection part number chart to enable the user to customise the transmitter to any shaft vibration application. At the time of placing the order, the client must specify the required scale and range or listed part number since the unit is calibrated to Traceable National Standards.

MIL Part Number Selector System

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Product Series	Channels	Unit Range	Parameter
MIL7200 Machinery Signal Transmitter	20 - 2 Chl	1 - 0-1g 2 - 0-2.5g 3 - 0-10 mm/s 4 - 0-20 mm/s 5 - 0-50 mm/s 6 - 0-250 microns 7 - 0-500 microns 8 - Customised 9 - Not Stated	1 - 0-Peak 2 - Peak-Peak 3 - RMS 9 - Not Stated

M	7	2	2	0	3	7	2	0	0

Sensor Input
1 - Accelerometer
2 - Inductive Velocity
3 - Piezo Velocity
9 - Not Stated

NOTES:

For Case vibration in microns use inductive sensor model MIL544M or Piezo Velocity Series MIL531/2/3/4

Contact MIL for its wide range of vibration sensors

Power Supply modules PN M720000007/8 for RPSM

SAMPLE DESCRIPTION WHEN ORDERING – (Alter variables in BOLD)	PART NO.
Transmitter, Machinery Signal, model MIL7200 series (4-20mA output): Dual Channel. Suitable for Vibration Sensor MIL532, Range 0-500 microns, Parameter P-P, with TWF BNC Sockets.	M722037200

PRODUCT SPECIFICATION

Machinery Signal Transmitter (Vibration) Series Model MIL7200

SPECIFICATION

Construction:	- ABS material
Mounting:	- DIN Rail mounted
Channels:	- Two
Signal Input:	- Inductive or Piezo Velocity Sensors for Absolute Casing Vibration - Accelerometers, wide selection available for Absolute Casing Vibration
Frequency Response:	- 10 - 1,000 Hz (600- 60,000 CPM) for MIL544M Inductive Velocity Sensor - 2 - 6,000 Hz (120-360,000 CPM) for MIL531/2/3/4 Piezo Velocity Sensors - 5 -10,000 Hz (300 -600,000 CPM) for Accelerometer
Display: -	- Blind (individual digital panel meters are optional) - LEDs indicating Sensor Condition & Input Power
Signal Outputs:	
Vibration Signal:	- Vibration Analyser Output (BNC connector) at front panel
DCS / PLC: -	- 4-20 mA isolated (Galvanic) with max load of 300 ohms. - 0-5Volt DC for Recorder or Communications
Communications:	
Optional:	- RS485 or ModBus
Accuracy:	- ±1% @ full scale
Power Supply Module:	- Powers up to 8 MST modules, DIN rail mounted PN M720000007
Redundant PS Module	- Powers up to 8 MST modules, DIN rail mounted PN M720000008 Input 110 or 240VAC 50/60Hz, Single Phase, Output + 24VDC, 500mA
Environmental:	
Operating temp:	- 0 °C to 50°C ambient
Storage temp:	- -18 °C to 65°C ambient
Humidity:	- 95% non-condensing
Weight:	- 0.45 Kg/Unit
Dimensions mm:	- 110(L)x70(W)x75(H)

Mechanalysis (India) Ltd. continuously improves products; it therefore retains the right to change the above specification without notice

The Vibration People of Mechanalysis (India) Ltd can be contacted at any one of the following Branches

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PRODUCT SPECIFICATION

System Architecture - Machinery Signal Transmitter (Vibration) Series model MIL7200