



PRODUCT SPECIFICATION

Machinery Protection Transmitter- (Vibration) Model MIL7100

The model MIL7100 series are available as Single or Dual channel Machinery Protection Transmitters in a variety of configurations. They are a cost effective solution for measuring up to two vibration points simultaneously in a rugged industrial environment. The transmitter converts rotating machinery vibration measurements into industry standard 4-20mA or 0-5Volt. These high integrity machinery protection transmitters give warning and trip signals suitable for: ID, FD, PA Fans, Mill Motors, Boiler Feed Pumps, Blowers, Compressors etc. Signal data can be transmitted to the Central Control Room or DCS for trending or is available for separate or integrated local display in the transmitter.

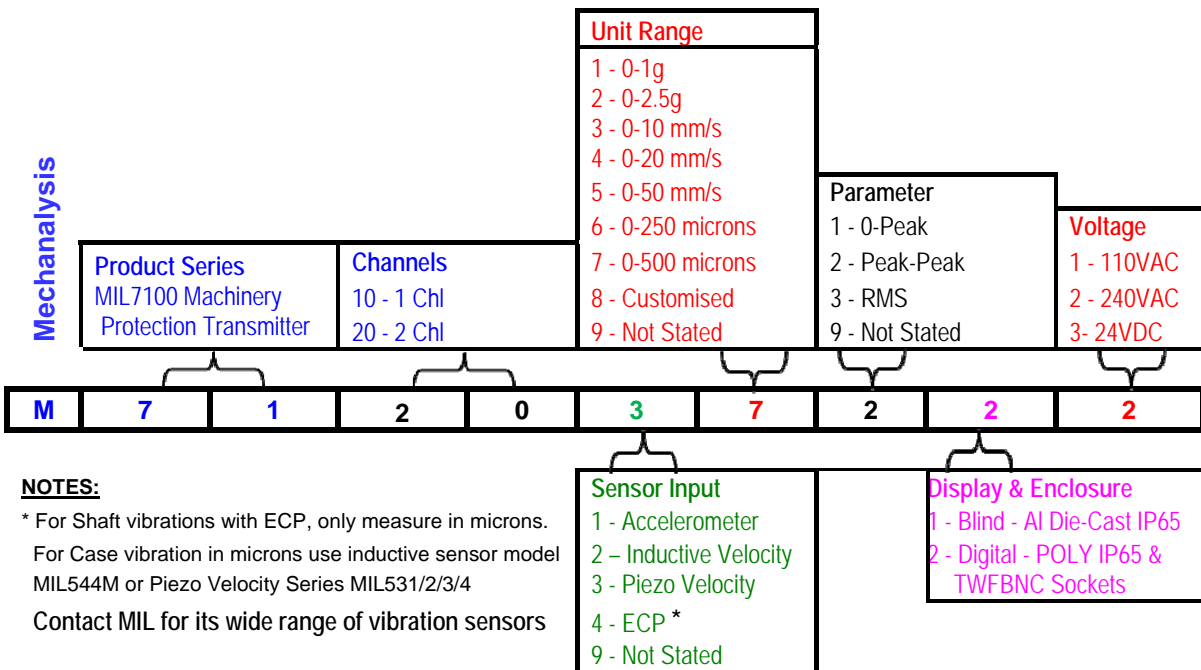


The MIL7100 series can be installed near to the machinery measurement point thus reducing the length of sensor signal cables. Enclosure options are aluminium die-cast powder coated or polycarbonate certified to IP65. The latter comes with digital displays and Time Wave Form buffered output BNC sockets for FFT analysis.



MIL Machinery Protection 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 machinery 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



SAMPLE DESCRIPTION WHEN ORDERING – (Alter variables in BOLD)	PART NO.
Transmitter, Machinery Protection, model MIL7100 series (4-20mA with 2 relays/Chl): Dual Channel . Suitable for Vibration Sensor MIL532 , Range 0-500 microns , Parameter P-P , Enclosure Polycarbonate IP65 Sealing, Digital Display with TWF BNC Sockets , 240VAC Supply.	M712037222



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Construction:	- Ruggedly packaged in die cast Aluminium or Polycarbonate IP65 enclosures
Mounting:	- Surface on Site or Panel mounted
Channels:	- Single or Dual Channel Input and Output options.
Signal Input:	- Inductive or Piezo Velocity Sensors for Absolute Casing Vibration - Accelerometers, wide selection available for Absolute Casing Vibration - Eddy Current Probes (Non Contact, Relative Shaft Vibration)
Frequency Response:	- 5–2,500 Hz within $\pm 5\%$
Display:	- Blind with AI Enclosure - Dual Digital Polycarbonate - LED: Sensor OK, Alarm and Trip visible with Polycarbonate Enclosure, otherwise internal.
Alarm & Trip Set points:	- Independent and adjustable over full scale range (5% - 100% is recommended) by trim pot inside the enclosure.
Alarm Relays:	- One Independent Relay per channel, 1 C/O contacts rated at 5A resistive @ 230V AC Normally de-energised (non fail safe). Automatically resets when signal level falls below the set point.
Trip Relays:	- One Independent Relay per channel, 2 C/O contacts rated at 5A resistive @ 230V AC Normally de-energised (non fail safe)
Circuit Fault Relay:	- Independent Reed relay. Contact rating 0.25A resistive @ 28V DC.
Signal Output:	- Buffered TWF output per channel from BNC Sockets in Polycarbonate option only - 4-20 mA recorder / DCS isolated with max load of 250 ohms. - 0-5 V DC with 1K ohm impedance optional for Communications.
Accuracy:	- 1% @ full scale
Power:	- 115 / 230VAC, 50/60Hz, Single Phase, 15VA or +24VDC, 5VA
Environmental	
Operating temp:	- 0°C to 65°C ambient
Storage temp:	- -18°C to 65°C ambient
Humidity	- 95% non-condensing
Weight:	- AL:5Kg or Poly 4.6Kg
Dimensions mm:	- AL 230(L)x200(W)x110(H). Polycarbonate 300(L)x300(W)x170

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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