



PRODUCT SPECIFICATION

Machinery Transmitter Loop Powered - (Vibration) Model MIL7400

In most process plants Operations are controlled by the DCS (Distributed Control System). For rotating machinery condition, vibration signals are converted to 4-20mA and interfaced by the DCS loop power system architecture. The limitation of this approach is that the maintenance department cannot collect the vibration AC signal time wave form signal for FFT Analysis. The Mechanalysis model MIL7400 loop powered dual channel transmitter now solves this important need by providing BNC sockets to access the TWF signal on site.



The model MIL7400 Series is a Dual Channel Loop Powered Transmitter that converts rotating machinery vibration measurements to industry standard 4-20mA. It simultaneously provides Time Waveform output at BNC sockets for FFT vibration analysis as a standard feature. The transmitter is suitable for measuring vibration on general rotating non critical machines. When linked to PLCs or DCS warning and trip signals will be configured there. As IP65 rated, the Model MIL7400 is intended to be field mounted near the machine.

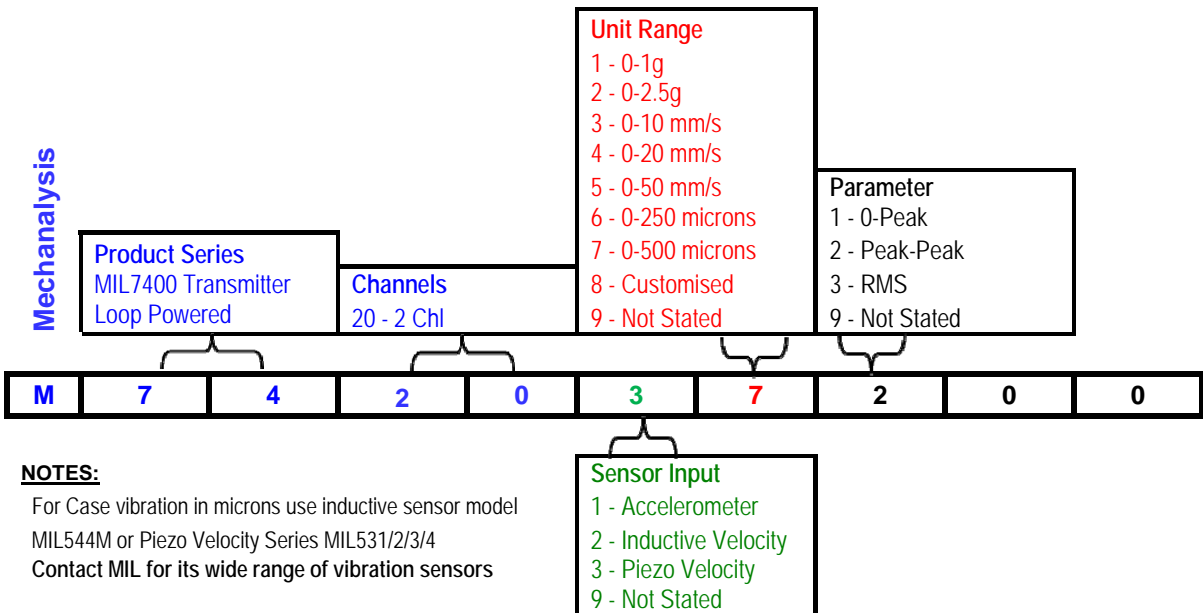
The design allows the sensor sensitivity to be matched with the LPT in the event that its calibration and output changes as the sensor ages. Unlike loop powered accelerometers, the MIL7400 separates the 4-20mA conversion from the sensor thus offering a wider range of sensor types, measurements and machine temperature ratings.

Features of the LPT:

1. Loop Powered from the DCS for each channel
2. Dual Channel vibration signal converter to 4-20mA, Isolated output per Channel
3. IP65 Enclosure with cap sealed Time Waveform signal output at BNC sockets for FFT analysis
4. Accepts most sensor types and sensitivities
5. Economic, saves additional junction box needed for loop powered accelerometers

MIL Machinery Loop Powered 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



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

SAMPLE DESCRIPTION WHEN ORDERING – (Alter variables in BOLD)	PART NO.
Transmitter, Machinery Loop Powered, model MIL7400 series (4-20mA output): Dual Channel. Suitable for Vibration Sensor MIL532 , Range 0-500 microns , Parameter P-P , with TWF BNC Sockets.	M422037200



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Construction:	- AL Die-Cast, Powder Coated, IP65 Enclosure
Mounting:	- Direct field mounting
Channels:	- Two independent
Signal Input:	- Inductive or Piezo Velocity Sensors for Absolute Casing Vibration - Accelerometers, wide selection available for Absolute Casing Vibration
Frequency Response:	- 14 - 1,000 Hz (600- 60,000 CPM) for MIL544M Inductive Velocity Sensor - 5 - 6,000 Hz (300-360,000 CPM) for MIL531/2/3/4 Piezo Velocity Sensors - 5 -10,000 Hz (300 -600,000 CPM) for Accelerometer
Signal Outputs:	
Vibration Signal:	- Vibration Analyser Output (BNC connector)
DCS / PLC:	- 4-20 mA
Accuracy:	- ±1% @ full scale
Power Supply:	- Loop Powered from DCS
Environmental:	
Operating temp:	- 0°C to 65°C ambient
Storage temp:	- -18°C to 65°C ambient
Humidity:	- 95% non-condensing
Weight:	- 0.75 Kg/Unit
Dimensions mm:	- 160(L) x 100 (H) x 80(D)

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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