

PRODUCT INFORMATION



Model MIL7110 Series Single Channel Machinery Data Transmitter (Vibration)

The model MIL7110 series of Single Channel Machinery Data Transmitter (MDT), measures one of three vibration parameters depending on the sensor selected. These are summarised against the part numbers given in the table below. At the time of placing the order, the client must specify the required scale and range or listed part number.



Part Nos.	FUNCTION	Chl.	Display	Sensors	Units	Ranges
M71111 / 2	Vibration	1	Analog	Velocity	microns pk-pk	0-250 & 0-500 microns
M71113 / 4				ECP	microns pk-pk	0-250 & 0-500 microns
M71133 / 4				Velocity	mm/sec pk	0-25 & 0-50 mm/sec
M71117 / 8				Accelerometer	mm/sec pk	0-25 & 0-50 mm/sec
M71135				Accelerometer	g	0-25 g

The MDT is proven for continuous reliable operation in a tough industrial environment. Standard instrumentation volt and mA signal data is transmitted to the Central Control Room or DCS for trending and display. The Transmitter can be located near to the measurement point and used for warning and alarm at local switch panels.

When associated with MIL544M sensor, the unit is ideal for most machinery vibration monitoring and protection applications. It converts the vibration velocity input signal into a proportional DC current output. The transmitter's output current is 4 mA DC (when input vibration signal corresponds to zero) and 20 mA DC (when input vibration signal corresponds to full scale) with an accuracy of $\pm 3\%$ of full scale range.

SPECIFICATIONS

- Construction:** - Ruggedly packaged in a die cast Aluminium IP65 enclosure
- Mounting:** - Surface or rack mounted
- Signal Input:** - From MIL544M Velocity Sensor or
 - Eddy Current Probe or
 - Accelerometer (ICP).
- Frequency Range:** - 5–2,500 Hz within $\pm 5\%$
- Display:** - Blind type
- Controls:** - Push button for ALARM and TRIP read, adjust and reset.



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- Alarm & Trip Set points:** - Adjustable over full scale range (5% -100% is recommended) by trim pot inside the enclosure.
- Alarm & Trip Relays:** - Relay output contacts rated at 5A resistive @ 230V AC. Normally de-energised (non fail safe)
- Circuit Fault Relay:** - Reed relay. Contact rating 0.25A resistive @ 28V DC.
- Signal Output:**
Recorder / DCS: - 0-5 V DC with 1K ohm impedance.
- 4-20 mA isolated with max load of 250 ohms.
- Accuracy:** - 1% @ full scale
- Power:** - 115 / 230VAC, 50/60Hz, Single Phase, 15W.
- Environmental**
Operating temp: - 0°C to 50°C ambient
Storage temp: - -18°C to 65°C ambient
Humidity - 95% non-condensing
- Weight:** - 4.5Kg
- Dimensions :** - 250mm (L) x 220mm (W) x 110mm (H)

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