

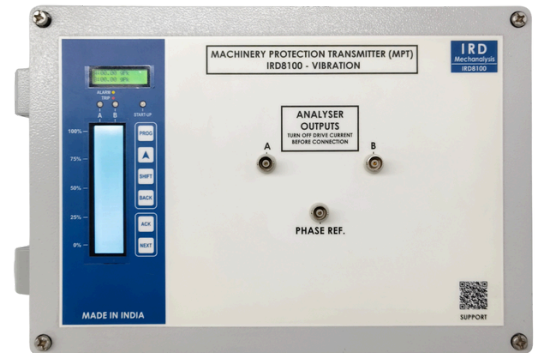
IRD8100 MPT

Machinery Protection Transmitter

Wall Mounted Microprocessor Based Vibration Transmitter for Round-the-Clock Monitoring

IRD
Mechanalysis

Introduction: IRD8100 MPT is a **Wall-Mountable** Machinery Protection Transmitter (MPT) designed for **Round-the-Clock Vibration Monitoring** of Machines like Motors, Pumps, Fans, Compressors, Turbines and More. It has a rugged **Al Die Cast Enclosure IP65 rated** and thus can be mounted near the machine in harsh conditions. It is **Microprocessor based with Password protection**. It allows for changing of Units, Full Scale, Sensitivity, Alarm Setpoints and more via its Keypad. It provides industry standard 4-20 mA, MODBUS, Buffered and Phase Reference Outputs and Relay Contacts. It has an **In-built Alphanumeric and Bargraph Display** for displaying Live Vibration as value and Bars



Specifications:

Power Input	: 90 - 264 VAC, 50/60 Hz, Single Phase OR 127 - 370 VDC
Power Consumption	: Regulated Power Supply makes 24 VDC using above and max consumption 1A (24W)
Sensor Input	: Supports Vibration Sensor - Accelerometer mV/g or Velometer mV/mm/sec
Number of Channels	: 2 Channels - Independent, Simultaneous and Programmable
Type of Measurement	: Overall Vibration Amplitude in Acceleration, Velocity or Displacement
Max Vibration Acceleration	: 10.00 g pk or 7.00 g RMS
Max Vibration Velocity	: 150 mm/sec pk or 100 mm/sec RMS
Max Vibration Displacement	: 1000 microns pk-pk
High Pass Filter	: 5 Hz, 10 Hz and 20 Hz - selectable via Menu
Low Pass Filter	: 1000 Hz, 5000 Hz and 10000 Hz - selectable via Menu
Current Output	: 4-20 mA output proportional to Full Scale, 600 Ohms Load Resistance
Relay Contacts	: 2 Sets for Alarm Setpoint and 2 sets for Trip Setpoint per channel, rated for 5A at 230 V AC resistive
Measurement Accuracy	: +/- 1% of Full Scale
Phase Reference Input	: 1 Channel Phase Reference Input using Non-Contact Eddy Current Based Sensor or Laser Tachometer
Buffered Outputs	: Buffered Time Waveform Output 1:1 for each Channel via BNC and Terminals. Buffered Phase Reference Output via BNC
Display	: In-Built Alphanumeric and Bargraph display for Live Vibration in Values and Bars
Enclosure Weight and Dimensions	: Al Die Cast IP65 rated, 230 x 330 x 181 mm, 7.14 kg net weight

Additional Features:

- Quick viewing of Sensor and Cable Healthiness Voltage (Bias Voltage), set Alarm values, set Trip values, machine RPM (if Phase reference connected) and Firmware Version using NEXT Button
- Start-Up Protection with configurable Time Delay (Disables Tripping while in-progress to avoid false tripping during Start-Up). Dedicated Trip Bypass mode to prevent tripping at all times
- Configurable Relay for both Alarm and Trip. Configurable for Setpoint, Time Delay, Latching, Hysteresis and more
- MODBUS RTU as well as MODBUS TCP/IP Output configurable for Module Address, Baud Rate and Parity

How to Order: Contact sales@irdmech.com for a quote for complete system - Sensors, Cables and Transmitter



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