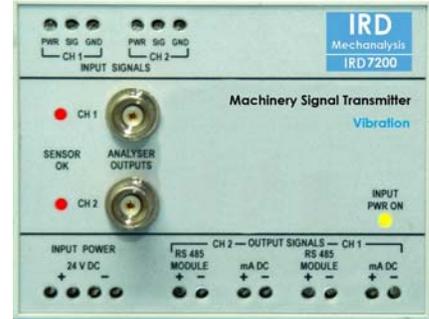


IRD7200 Machinery Signal Transmitter (Vibration)



The model IRD7200 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 IRD7200 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 IRD7200 separates the 4-20mA conversion from the sensor thus offering a wider range of sensor types, measurements and machine temperature ratings.

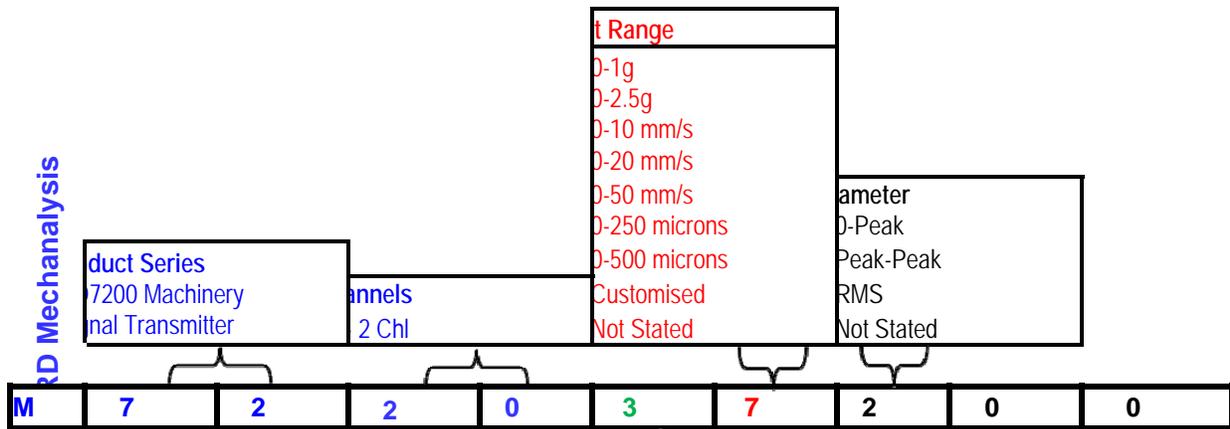


Features of the MST:

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

IRD 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.

D Part Number Selector System



NOTES:

For Case vibration in microns use inductive sensor model IRD544M or Piezo Velocity Series IRD531/2/3/4
Contact IRD for its wide range of vibration sensors
Power Supply modules PN M720000007/8 for RPSM

Sensor Input
Accelerometer
Inductive Velocity
Piezo Velocity
Not Stated

SAMPLE DESCRIPTION WHEN ORDERING – (Alter variables in BOLD)	RT NO.
Transmitter, Machinery Signal, model IRD7200 series (4-20mA output): Dual Channel. Suitable for Vibration Sensor IRD532, Range 0-500 microns, Parameter P-P, with TWF BNC Sockets.	22037200



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 IRD544M Inductive Velocity Sensor
 - 2 - 6,000 Hz (120-360,000 CPM) for IRD531/2/3/4 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)

IRD Mechanalysis® Ltd continues to be an industry leading provider of Condition Management Solutions. With a heritage of over 60 years experience in machinery vibration and associated technologies, IRD designs, manufactures and supports proven instrumentation suitable for harsh industrial environments.

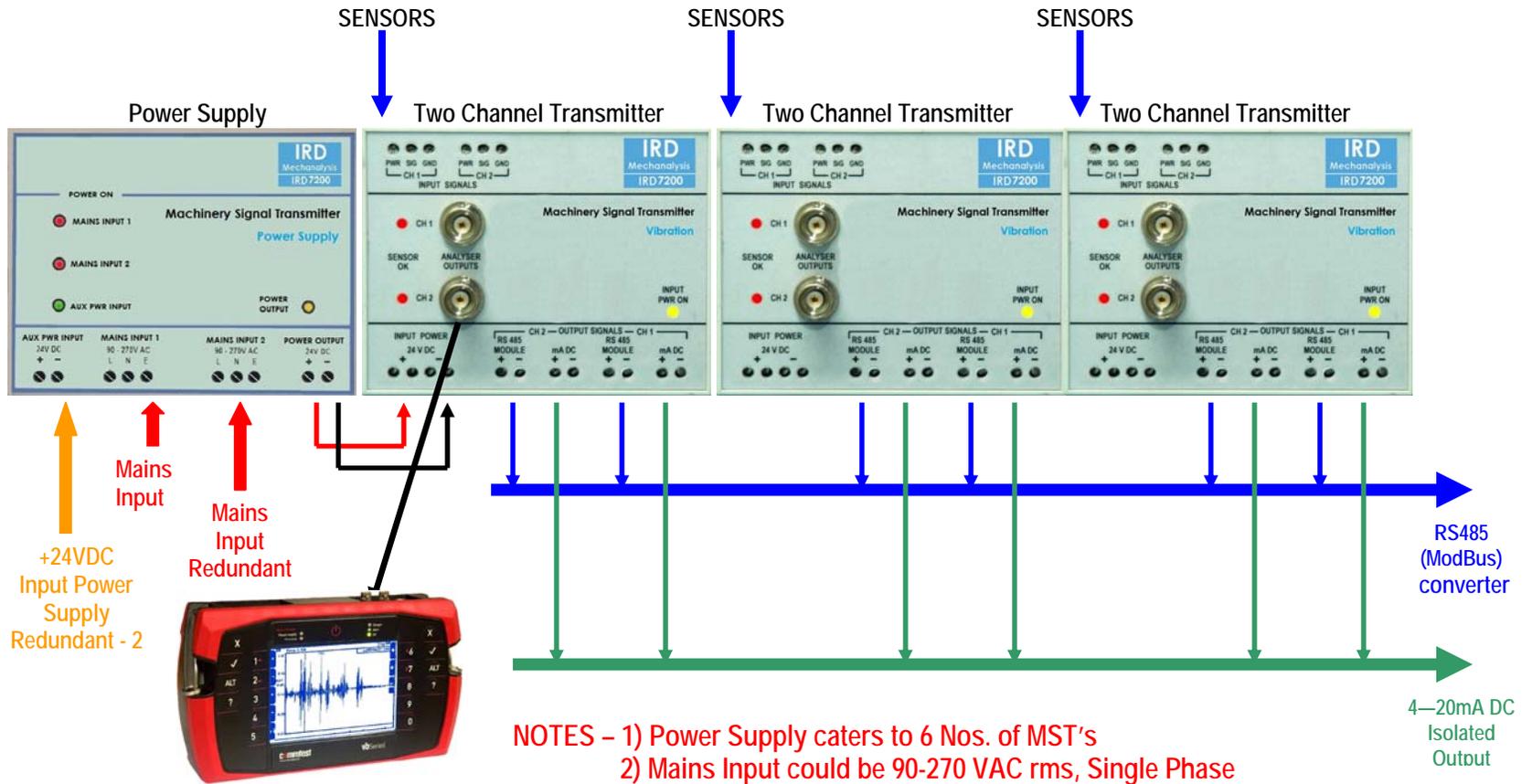
The **Vibration People** of IRD Mechanalysis can be contacted at the following branches or your local distributor:

Mumbai	Delhi	Kolkata	Chennai	International
1/5, Marol Co-op. Industrial Estate Ltd, Off. Mathuradas VasANJI Rd. Marol, Andheri (East), Mumbai 400 059	Sagar Deep, Plot No.11 LSC Saini Enclave, Vikas Marg New Delhi 110 092	153/A, 2nd Floor VIP Road Kolkata 700 054	7-C, Chesney Nilgiri Apts 65, Commander-In-Chief Rd Chennai 600 105	1/5, Marol Co-op. Industrial Est. Ltd, Off. Mathuradas VasANJI Rd. Marol, Andheri (E) Mumbai 400 059, INDIA
Tel: +91(0)22-2852-0178 Fax: +91(0)22-2852-1814 sales@irdmech.com Service@irdmech.com	Tel: + 91(0)11-2237-3916 Fax: +91(0)11-2237-0778 salesNR@irdmech.com	Tel: +91(0)33-2355-2062 Fax: +91(0)33-2355-9214 salesER@irdmech.com	Tel: +91(0)44-2823-0726 Fax: +91(0)44-2823-4702 salesSR@irdmech.com	Tel: +91-22-2852-0178 Fax: +91-22-2852-1814 sales@irdmech.com Service@irdmech.com

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System Architecture - Machinery Signal Transmitter (Vibration) Series model IRD7200



Raw Signal for Vibration Analyser