



INGENIERIA ELECTRONICA APLICADA A LAS VIBRACIONES

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IRD Mechanalysis® Ltd



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PRODUCT DATA SHEET

IRD306 Vibration Meter (Velocity Sensor)



The IRD Mechanalysis model IRD306 vibration meter measures industrial machinery vibration in terms of Displacement (microns) and Velocity (mm/sec) covering most machinery faults. This rugged and proven portable vibration meter has been in use worldwide for over 45 years. Over this time its circuitry has been enhanced to ensure stability, accuracy and the highest reliability. Supplied with the high temperature IRD544 inductive velocity sensor, it can also be used for balancing machine rotors applying the 'Three Point Balancing Method'.

BILL OF MATERIALS	Qty	Part Number (P/N)
IRD306 Vibration Meter (Velocity Sensor)	1	M30601
Sensor inductive velocity model IRD544 42.5mV/mm/sec, top connector	1	M45260
Cable Assembly for model IRD306/306C to IRD544 Velocity Sensor - 1.2m (4ft), rubber insulated, shielded	2	M24820
Magnetic Portable Base, model IRD544 Sensor	1	M24823
Stinger, Al 225mm long for Sensor	1	M24827
Carrying Case for model IRD306 / IRD306C	1	M25349
Battery Set, 2 Nos. of 9V, 100mAH Dry Cells	1	M30642
Manual Operating	1	M43080
Optional Accessories		Part Number (P/N)
Shaft Fish Tail Stick - Absolute Vibration for IRD544		M24824
Magnetic Deflecting Shroud for IRD544 Sensor,		M24825
Manual Training- IRD MVT1		M51001



SPECIFICATIONS

Measurement Ranges 7 Overlapping

Displacement: - 0 – 3,000 microns Pk to Pk

Velocity: - 0 – 3,000 mm/sec Pk

Frequency Range

Displacement: - 300 to 24,000 CPM (5 Hz to 400 Hz)

Velocity: - 300 to 150,000 CPM (5 Hz to 2,500 Hz)

Accuracy

Instrument: - 1.0 % of full scale

Input

: Inductive Velocity Sensor IRD544 Calibrated to National

Standards

Output

: Analog Moving Coil Meter display

Power Requirements

Internal Battery - Battery Set, 2 Nos. of 9V, 100mAH Dry Cells

Environmental

Operating temp: - 0°C to +55°C

Storage temp: - 18°C to +60°C

Weight & Dimensions

Instrument: - 184mm (L) x 114mm (W) x 83mm (H)

Carrying case: - 195mm x 185mm x 110mm

Instrument with batteries: - 0.8 Kg

Carrying Case: - 2.4 Kg (including meter and standard accessories)

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IRD Mechanalysis Ltd. strives to continue to improve the above specification and retains the right to change them without notice

condition management solutions