



INGENIERIA ELECTRONICA APLICADA A LAS VIBRACIONES

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IRD Mechanalysis® Ltd



PRODUCT DATA SHEET



IRD306DI - Large Machinery Vibration Meter (Inductive Velocity)

The IRD Mechanalysis model IRD306DI is a portable digital auto-ranging vibration meter with a clear large LCD display supplied with an inductive velocity sensor. It is designed for large machinery vibration measurement especially at the steam turbine end as the supplied IRD544 sensor operates to 260°C. It is very easy to use; simply select either Displacement (microns) or Velocity (mm/sec) from a central tactile button; the auto-ranging display changes to the appropriate measurement unit. The ISO 10816-3 machinery vibration assessment guide is printed on the front panel. The IRD306DI complements the General Machinery Vibration meter model IRD306DP. Both evolved from 45 years of proven signal processing. It can be used for balancing machine rotors applying the 'Three Point Balancing Method'. A spare cable is supplied for *'Keeping you Going'*

BILL OF MATERIALS	Qty	Part Number
IRD306DI Vibration Meter with Accessories:	1	M30604
Velocity sensor (inductive) model IRD544	1	M45260
Cable Assembly for model IRD306DI to IRD544 Velocity Sensor- 1.2m, rubber insulated, shielded	2	M24822
Magnetic Portable Base, model IRD544 Sensor	1	M24823
Stinger, Al 225mm long for Sensor	1	M24827
Carrying Case for model IRD306DI	1	M25351
Battery Set, 2 Nos. of 9V, 100mAH Dry Cells	1	M30642
Manual Operating	1	M43085
Optional Accessories		Part Number
Shaft Fish Tail Stick - Absolute Vibration for IRD544		M24824
Magnetic Deflecting Shroud for IRD544 Sensor,		M24825



SPECIFICATIONS

Measurement Display – Auto Ranging

Displacement: - 0 - 2,000 microns Pk-Pk
 Velocity: - 0 - 200 mm/sec RMS

Frequency Range

Displacement: - 600 to 60,000 CPM (10 Hz to 1,000 Hz)
 Velocity: - 600 to 60,000 CPM (10 Hz to 1,000 Hz)

Accuracy

Instrument: - 0.5% of full scale ± 1 count

Input / Output

Input: - Velocity Inductive Sensor IRD544
 Output: - LCD Digital Display (3½ Digit)

Power Requirements

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

Environmental

Operating temp: - 0°C to +50°C, Sensor to 260°C
 Storage temp: - -18°C to +65°C

Weight & Dimensions

Instrument Wt.: - 400 gms (meter only)
 Instrument: - 18mm (L) x 100mm (W) x 40mm (H)
 Carrying Case Wt.: - 2.4 Kg (inc. meter & standard accessories)
 Carrying Case: - 195mm (L) x 185mm (W) x 110mm (H)

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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