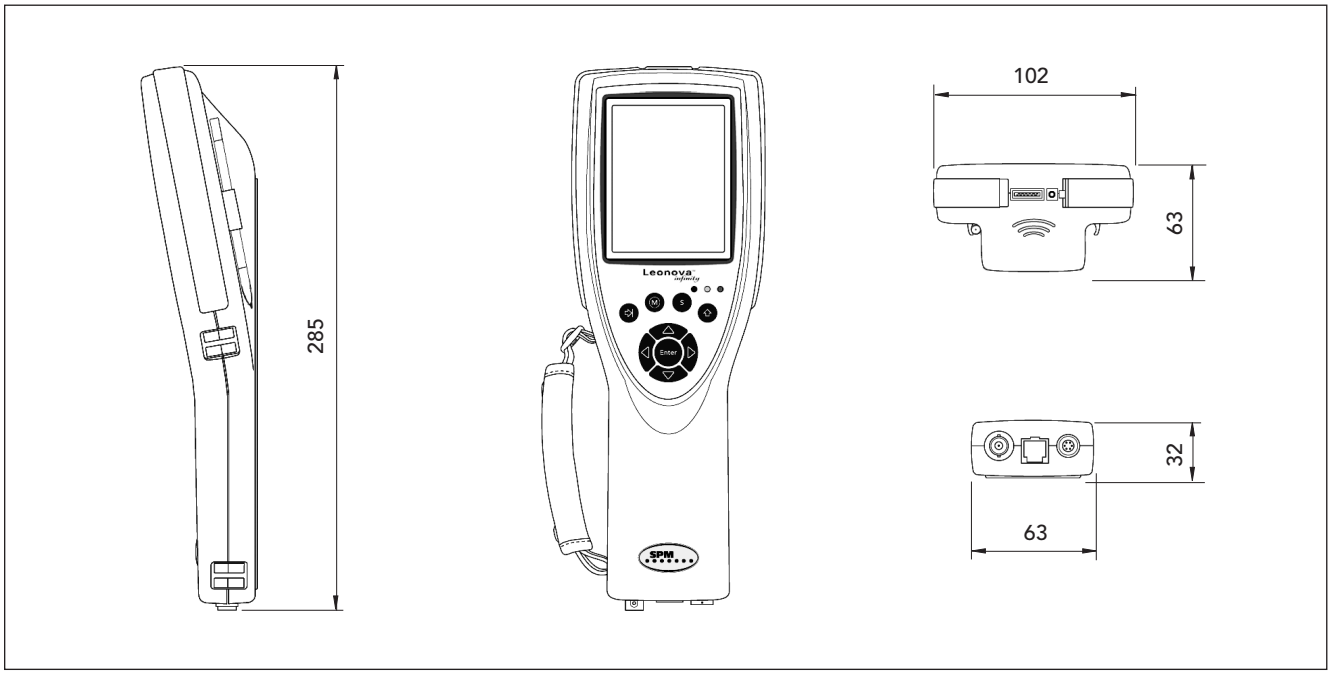
Leonova™ Infinity – Instrument Specifications



Leonova Infinity is a multi-function, hand-held data logger. The instrument is operated via keypad and touchscreen. Basic data for the measurement set-up can be input manually or downloaded from Condmaster®Nova.

Leonova Infinity is always programmed for an unlimited use of the measuring functions listed below (Platform). Other diagnostic and analytic functions, for shock pulse measurement, vibration measurement, orbit analysis, rotor balancing and shaft alignment, are user selected. For technical information and specifications, see respective data sheets listed on TD-212.

Technical data, instrument (Platform)

Housing:	ABS/PC, Santoprene, IP54
Dimensions:	285 x 102 x 63 mm (11.2" x 4" x 2.5")
Weight:	580 g (20 oz.)
Keypad:	sealed, snap action
Display:	touch screen, TFT colour, 240 x 320 pixels, 54 x 72 mm (2.1 x 2.8 inch), adjustable backlight
Main processor:	400 MHz Intel® XScale®
Memory:	64 MB RAM, 32 MB Flash expandable up to 4 GB
Operating system:	Microsoft Windows® CE.net
Communication:	RS232 and USB
Dynamic range:	16 bit A/D converter, automatic gain settings
Condition indication:	green, yellow and red LEDs
Power supply:	rechargeable Lithium-Ion batteries
Battery power:	for minimum 8 hours normal use
Operating temperature:	0 to 50 °C (32 to 120 °F)
Charging temperature:	0 to 45 °C (32 to 113 °F)
General features:	language selection, battery charge display, transducer line test, metric or imperial units
Meas. point identification:	RF transponder for communication with CondID™ tags, read/write distance max. 50 mm (2 inch)

Vibration severity (ISO 2372)

Measurement quantity:	vibration velocity, RMS, range 10 – 1000 Hz
Evaluation table selection:	menu guided, ISO 2372
Vibration transducer input:	< 18 Vpp. Transducer supply of 4 mA for IEPE* (ICP) type can be set On/Off
Transducer types:	Any transducers (disp., vel. or acc.) with voltage output
Vibration channels:	2, simultaneous measuring

Speed measurement

Measuring range:	10 to 60 000 rpm
Resolution:	1 rpm
Accuracy:	± (1 rev. + 0.1% of reading)
Transducer type:	TAD-18, TTL-pulses

Temperature measurement

Measuring range:	–50 to +440 °C (–58 to 824 °F)
Resolution:	1 °C (1 °F)
Transducer type:	TEM-11 with TEN-10 (surface temperature) and TEN-11 (liquids)

Analog signals

Measurement range:	0 to 1 V DC, 0 to 10 V DC, 0 to 20 mA, 4 to 20 mA

* Integral Electronic PiezoElectric

Patent No.: US#7,313,484, US#7,167,814, US#7,200,519, US#7,054,761, US#7,324,919, EP#1474664, DE#60304328.3, FR#1474664, GB#1474664, NL#1474664, SE03731865.6

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