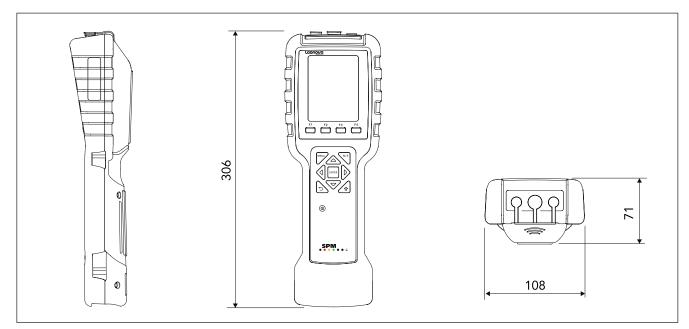
Leonova Emerald[®] – Instrument specifications



Vibration monitoring

Technical specifications

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Housing:	ABS/PC/TPE, IP65	Vibration channels:	1
Dimensions:	306 x 108 x 71 mm	Dynamic range:	<120 dB, 24 bit A/D converter
Weight:	860 g	Frequency range:	0 (DC) to 20 kHz
Keypad:	Sealed, snap action	Resolution:	Max. 12 800 lines
Display:	TFT colour, 240 x 320 pixels, 3.5 inch, adjustable backlight	Vibration transducer input:	< 24 Vpp. Transducer supply of 2,5 mA for IEPE (ICP) type can be set On/Off
Main processor:	400 MHz ARM	Tranaducar turaca	
Memory:	256 MB RAM, 512 MB Flash, SD card 1GB	Transducer types:	Any transducers (disp., vel. or acc.) with voltage output
Operating system:	Microsoft Windows [®] CE	Measuring techniqes:	ISO 2372, ISO 10816, HD ENV, FFT with symptoms, EVAM Evaluated Vibration Analysis, balancing
DSP processor:	375 MHz floating point		
Communication:	USB 2.0		
Power supply:	Rechargeable Lithium-Ion battery pack, 5200 mAh or power adapter	Bearing monitoring	
Battery power:	For min. 18 hours normal use (20°C)	Measuring range:	SPM HD: -30 to 110 dBsv (44000 transducer)
Operating temperature:	–20 to 55 °C (–4 to 122 °F), non condensing		dBm/dBc: –9 to 99 dBsv
Charging temperature:	0 to 45 °C (32 to 113 °F)		LR/HR: -19 to 99 dBsv
General features:	Language selection, battery status indication, transducer line test,	Resolution:	0,2 dB / HD, 1 dB / dBm/dBc and LR/HR
	metric or imperial units	Transducer types:	SPM 40000, 42000, 44000, probe
Meas. point identification:	NFC transponder for communi- cation with CondID™ tags, read/		and quick connector transducers, DuoTech
	write distance max. 50 mm (2 inch)	Tachometer input	
Output/input		Measuring range:	1 to 150 000 PPM
Headphones/microphone:		Resolution:	1 pulse
Communication:	Mini USB	Accuracy:	\pm (1 pulse + 0.01% of reading)
Temperature measurement Input: TTP10 Tachometer/Temp. probe		Transducer types:	SPM TTP10, TTL pulses, Keyphasor® and proximity switch NPN/PNP.
Stethoscope	TTTTO raciometer/temp. probe	Output:	TTL output for stroboscope and 12 VDC
Transducer types:	Shock pulse and vibration transducers	Patents: DE#60304328.3 - US#7,054,761 - US#7,167,814 - US#7,200,519 - US#7,301,616 - US#7,313,484 US#7,324,919 - US#7,711,519 - US#7,774,166 - DE#6033638.0 - US#7,949,496 - DE#60337804.8 GB#147465 - GB#147663 - DE#6033363.5 - ZA#2011/04946 - SE#0951017-3 - DE#60341502.4 GB#1474659 - SE#1000631.0 - US#8,762,104 - US#8,812,265 - US#8,810,396 - CN#2L20090155994.1 CN#710010001727.8 - KZ#007071 - UJ#8,762,104 - US#8,812,265 - US#8,810,396 - CN#2L20090155994.1	
Settings:	Filter, volume and gain		

Patentis: DE#003426.3 - US#7,043,01 - US#7,167,814 - US#7,200,519 - US#7,301,616 - US#7,313,444 US#7,243,4919 - US#7,211,519 - US#7,771,166 - DE#6033838.0 - US#7,949,496 - DE#60337804.8 GB#1474662 - GB#1474663 - DE#6033805.3 - US#8,810,396 - CN#2L200980155994.1 CN#2L200980159797.8 - KZ#020791 - RU#020791 - AU#2009330744 - RU#021908 - KZ#021908 US#9,200,980 - US#9,213,671 - CN#ZL201180006321.7 - KZ#022630 - RU#022630 - US#9,279,715 US#7,304,033 - KZ#0204339 - CN#ZL20188007381.X - AU#2015203801 - AU#2015216572 RU#021491377 - CN#ZL2012800347548 - US#6,873,931 - DE#6031216572 RU#201491377 - CN#ZL2012800347548 - US#6,873,931 - DE#60213021988.5 - DK/FI/FR/IT/NL/NO/ES/GB#2810027 - SE#13744257.0 - AU# 2015203361 - RU# 027452 - GB# 2505984 - US# 9,772,219



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