

VIBSCANNER® 2 – Technical data

Parameter	VIBSCANNER® 2
Measurement channels	
Number	3 synchronous analog channels (X/Y/Z)
Z channel (0 ... 50 kHz)	-20 .. +20 V, input impedance: 78 kOhm IEPE Linedrive
X/Y channel (0 ... 10 kHz)	-20 .. +20 V, input impedance: 78 kOhm IEPE
Dynamic range	109.5 dB (total)
Sampling rate	up to 131 kHz per channel
Signal processing	3 x 24 bit ADCs
Measuring range / Accuracy	Vibration acceleration: dependent on used sensor Shock pulse: -10 dBsv to 80 dBsv +/- 2 dBsv
Fulfilled standard	DIN ISO 2954:2012 (2-1 kHz, 10 Hz -1 kHz, 10-10 KHz)
Display	
Type	Capacitive touchscreen Optically bonded for high contrast and increased shock resistance
Active area	95 x 54 mm [3 3/4" x 2 1/8"]
Size	10.9 cm [4 1/3"]
Color depth	16 million colors
Viewing angle	< 140°
Operation	Multi touch – gesture control Glove-compatible
Illumination	Background lighting, adjustable
Ambient light sensor	Yes
Supply	
Type	Li ion rechargeable battery
Rated voltage	7.2 V
Energy density	72 Wh
Charge time, typical	5.0 h (0 ... 100 % @ 25 °C / 77 °F) 3.5 h (0 ... 80 % @ 25 °C / 77 °F)
Charging temperature	10 °C ... 40 °C [50 °F ... 104 °F]
Operating time, typical	12 h (continuous operation, rechargeable battery 100 %) 6 h (continuous operation, rechargeable battery 50 %)
Power adapter	100-240 V~, 50-60 Hz (input) 12 V 3 A (output)
Energy saving mode	Yes
Computer	
Processor	ARM A9 - Quadcore 1 GHz
Operating elements	Touchscreen, ON/OFF key, Enter key
Memory	microSD card, 32 GB for measurement data, permanently installed 2 GB RAM
USB	1 x USB 2.0, device interface
RFID	RFID reader module for PRÜFTECHNIK transponder ALI 50.628-25 Complies with ISO 14443a and ISO 15693 Reading distance: 2...3 cm (13/16" ... 1 3/16")
WiFi	IEEE 802.11a/b/g/n/ac Throughput: < 200 Mbps Security: WPA2
Stroboscope	Frequency range: 0.1 – 1000 Hz Resolution: 0.06 1/min. LEDs: Risk group 1 per IEC 62471
LED	1x RGB LED (display for battery status and charging process)
Environment / Mechanical system	
Connections	Socket for power adapter Micro USB for data cable Plug-in connector (8-pole) for signal cable
Housing	2-component housing: PC and ABS Sheath: TPE, black
Dimensions	203 x 143 x 76mm (LxWxH) [8 x 5 5/8 x 3"]
Weight	approx. 1.0 kg [35.3 oz]
Degree of protection	IP65, dust-proof and spray water-protected
Temperature range	Operation: -10 °C ... +50 °C [14 °F ... 122°F] Storage: -20 °C ... +60 °C [-4 °F ... +140°F]
Air humidity	0 ... 90 %, non-condensing
Certifications	CE, RoHS, FCC, FCC/IC