



DynaLogger HF

DynaPredict Solution

DynaLogger HF (High Frequency) is a data logger with vibration and temperature sensors, designed to monitor machine condition and perform spectral analysis.

PN 010232

"Image is merely illustrative and may not reflect the final version of the received product"



Technical Specification

Physical Characteristics

Dimensions	39 mm x 39 mm x 35 mm
Weight	67 g
Material	LEXAN™
Color	Blue
Mounting	Glued or screwed
LED	Red and green
Antenna	Internal
Electronic sealing	100% Resin

Safety

Certifications	INMETRO AEx
Protection	IP66 / IP68
Safety marking	Ex ma IIB T6 Ga
	Ex ta IIIC T85 °C Da

Battery

Operating Temperature	-10 °C ≤ T ≤ 84 °C
Voltage	3.0 V
Autonomy	3 to 5 years (depending on usage)

App

Operating system	Android and iOS
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Accessories

Screw	M6x1x50 Stainless Hex Socket
Spring washer	M6

Performance

Bluetooth	BLE 5.0 / 2400 - 2483.5 MHz
Range	60 m (free field)
Overall vibration levels monitored	Triaxial RMS velocity
	Triaxial RMS acceleration
	Contact temperature
Memory	7,116 samples
Sampling period	1 to 60 (min)
Temperature resolution	0.01 °C (-10 °C to 80 °C)
Error margin	± 0.5 °C (-10 °C to 80 °C)
Acceleration	± 16 g with Auto Range

Spectral Settings

Spectral analysis	3 axes 0.5 Hz - 6.4 kHz
Sampling rate	12.8 kHz
Number of lines	Up to 16,384

Triaxial

Max. freq. (Hz)	Number of lines (per axis)			
	512	1,024	2,048	4,096
800	0.64s	1.28s	2.56s	5.12s
1,600	0,32s	0.64s	1.28s	2.56s

Uniaxial

Max. freq. (Hz)	Number of lines (per axis)					
	512	1,024	2,048	4,096	8,192	16,384
800	0.64s	1.28s	2.56s	5.12s	10.24s	20.48s
1,600	0.32s	0.64s	1.28s	2.56s	5.12s	10.24s
3,200	0.16s	0.32s	0.64s	1.28s	2.56s	5.12s
6,400	0.08s	0.16s	0.32s	0.64s	1.28s	2.56s

This equipment is not entitled to protection against harmful interference and must not cause interference in duly authorized systems. This product is not suitable for use in a domestic environment, as it may cause electromagnetic interference that requires the user to take necessary measures to minimize these interferences.