



Dyna Logger TcA+

DynaPredict Solution

DynaLogger TcA+ is a Bluetooth data logger with vibration and temperature sensors, designed to monitor machine condition and perform spectral analysis.

PN 010202

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



Technical Specification

Physical Characteristics

Dimensions	33 mm x 33 mm x 35 mm
Weight	46 g
Material	LEXAN™
Color	White
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 of usage)

App

Operational 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)
Margin of error	± 0.5 °C (-10 °C to 80 °C)
Acceleration	± 16 g with Auto Range

Spectral Settings

Spectral analysis	3 axes 0.25 Hz - 1 kHz					
Sampling rate	2 kHz					
Number of lines	Up to 16,000					
Triaxial						
Max. frequency (Hz)	Number of lines (per axis)					
	512	1,024	2,048	4,096		
1,024	0.5s	1.0s	2.0s	4.0s		
Uniaxial						
Max. frequency (Hz)	Number of lines (per axis)					
	512	1,024	2,048	4,096	8,192	16,384
1,024	0.5s	1.0s	2.0s	4.0s	8.0s	16.0s

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.