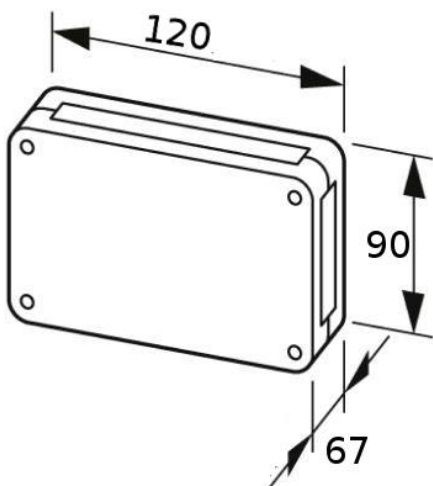# monixo

predictive maintenance & CBM

MONIXO® Connected Moniteur

120

90

67

if you have any questions or need more details, please contact us
Email: contact@monixo.com

Specifications		Note
Monitors		
Embedded sensors number	4 sensors	32 sensors with multiplexed signal
Embedded sensors type	Vibration, temperature , ultrasonic (acoustic emission), current, pressure, flow rate	**not exhaustive**
Vibration		
Measurement range	±16g	
Bandwidth	[0 Hz – 5 kHz]	
Sensitivity	100 mV/g	
Axis	Tri-axial (x,y, z)	
Output	Level (RMS or PtoP) & FFT	
Temperature		
resolution	0.1°C	
measurement range	− 50°C to 200°C	
Ultrasound		
measurement range	1dB-120dB ±5%	
Bandwidth	[100kHz-400kHz]	
Wireless local communication (via Bridge)		
Bandwidth	868 Mhz	
Direction	Bidirectional	
Modulation	FSK(frequency-shift keying)	
Output power	+5dBm	
Sensitivity	-110dBm	
Maximum range outdoor	1000m	
Maximum range indoor	300m	
Maximum rate	1,2kbps	
Frequency deviation	45KHz	
Reception Bandwidth	67KHz	
Automatic Frequency Control (AFC)	activated	
Error Control	CRC	
Encryption	activated	
Messaging protocol	MQTT	
Capacity of the Bridge	300 Monitors (1200 sensors)	
External communication		
Connectivity	GSM , Ethernet, LoRa(WAN), Sigfox, NB-IoT	store and forward in real-time applied on data to avoid data lost in case of network issues
Power		
Battery type	Lipo	
Battery life	Reference*: 5 years *1 RMS/180 seconds + 1 FFT/axe/24 hours	rechargeable
Current consumption	In activity : 18 μA In standby : 0.13 μA	