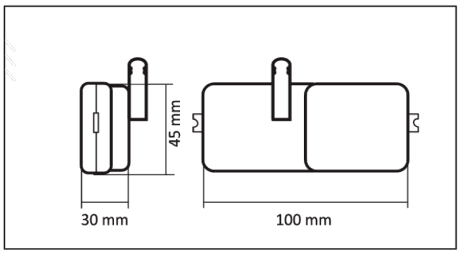
kerberos

KET-VYB-100



Wireless vibration sensor

- **Three-axis linear accelerometer**
- **Input for PT1000**
- **Enable predictive maintenance**
- **For Fault Detection**

As part of a systematic approach to Fault Detection, particularly in automated and unmanned environments, the **KET-VYB-100** allows machine vibrations to be measured and checked against declared tolerances, generating an alarm if necessary.
In the context of predictive maintenance, it makes it possible to intervene before the machine breaks down, thus avoiding downtime and the associated impact on production and company logistics. production and company logistics.
The three-axis linear **accelerometer** inside is capable of measuring accelerations with output data rates from 1 Hz to 5.3 kHz and detects 6D/4D orientation, free fall and motion.
It has a common input for digital or **PT1000** thermo-resistance input for temperature monitoring and a **0-10 V** analogue output.
The small size and **amplified radio module** allow easy application on any element to be monitored.

Technical Features	
General specifications	**Protection Range**: IP40 **Operative Temperature**: -15 ÷ +70 °C
Case	**Dimensions**: 100 x 45 x 30 mm (W x H x D) **Mounting**: With bioadhesive (supplied) or screws to the body to be monitored **Material**: Polimid B 30GF V0A black - Isoryl A 120 GF0 V0 black
Power supply	**Supply Voltage**: 230 VAC with integrated power supply (50-60 Hz) **Consumption**: 1.5 VA **Connectors types**: Device supplied with pre-skinned cable terminals
Inputs	**Channels**: 1 in common with the digital input. Allows connection with a PT1000 temperature probe
Rele' outputs	**Channels**: For local alerts **Maximum Rated Current**: 8 A **Voltage Output**: 250 VAC @ 16 A **Isolation**: Class II
Radio module	**Supported Protocols**: X-Monitor Protocol (X-MP) / IEEE 802.15.4 **Radio Frequency**: 2.4 GHz ISM Band **Output Power**: +3 ÷ +20 dBm **Sensitivity**: -104 dBm **Antenna Type**: RPSMA connector, 90° antenna supplied **Max Distance (Free Air)**: Over 1000 m
Functionality	**Radio Signal Indicator**: Integrated (LinkQuality) **Output Power Adjustment**: From local keyboard and remotely **Firmware Upgrade**: Via radio
Accelerometer	**Velocity**: 1 Hz ÷ 5,3 kHz **Acceleration**: 3000 g for 0.5 ms, 10000 g for 0.2 ms **Functionality**: 6D/4D orientation, free-fall and motion detection