9075 Wireless Accelerometer

Instruction Manual

Description

The 9075 is a wireless accelerometer used to take vibration readings and send data via Bluetooth wireless communication to an Android tablet running the TPI Ultra III app.

Used in conjunction with Ultra III software the 9075 features include:

- 2/10Hz to 1kHz ISO standard for assessing Unbalance, Misalignment or Looseness
- 1kHz to 10kHz BDU range for identification of Bearing Condition
- High resolution (0.2 Hz) frequency spectra from 2 Hz to 10 kHz
- Screen Cursors - Single, Harmonic, Moving Harmonic, Sideband, and Time/Frequency for waveform
- Demod & Coast Down, Phase & Orbit Plots, Gap Voltage Display
- Download Routes with Inspection points (with optional C-Trend II PC software)
- Clear, easy-to-read and navigate touchscreen
- Wireless Charging
- Battery – 2000mAh Lithium-Ion battery
- Data transfer by Bluetooth
- 2Hz to 10kHz Frequency Range
- 100 to 51,200 Line Resolution
- 108dB Dynamic Range
- IP67 rated housing

Overview

Front View
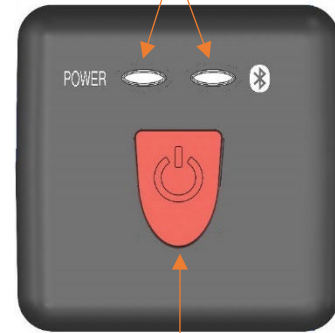
On / Off Switch

LED Indicators

9075

Wireless Smart
Vibration Sensor

tpi

www.testproductsintl.com
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Back View

Wireless charging,
Place this area onto
wireless charging pad.

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IC:23872-FSCBT806A
210-160196

Lithium ion 3.7V

UK
CA CE

S/N: XXXXXXX.XXXX

Designed in the United Kingdom
Assembled in South Korea

Top View

Power and Bluetooth
connection indicator
LED's

POWER

On/Off Switch

Side / Bottom View

¼ x 28 threaded female
connection point for use
with magnets and studs

9075

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tpi

Charging the 9075

The 9075 can be charged using a wireless charging pad.

Place the 9075 backside down on the charging pad. Make sure the charge indication icon on the 9075 is placed on the pad. Please see the charge indication icon below.

The ORANGE power indication LED will flash while the 9075 is charging. When the 9075 is fully charged, the power indication LED will flash GREEN.

Turning the 9075 On and Off

Powering On

Press & hold the On/Off button to turn the 9075 on.
The Green power LED will illuminate.

Powering Off

Press and hold the On/Off button until the 9075 turns off. The Power and Bluetooth LED's will illuminate Orange and Blue respectively prior to turning off.

9075 LED Conditions

Not Charging:
Solid Green LED on when turned on and battery >= 20%.
Solid Red LED on when turned on and battery < 20%

When Charging:
Flashing Red LED if battery is < 20%.
Flashing Orange LED if battery is >= 20% & < 98%.
Solid Green LED if battery is fully charged

When in Operation:
Blue LED on when connected to a tablet.
Orange and Blue LED on prior to turning off when the on/off switch is held down.

Using the 9075

1. Turn the 9075 on. The 9075 is ready to be connected to an Android tablet running the Ultra III app.

2. Open the Ultra III app on the Android tablet & enter Meter Mode. The Ultra III app will search for the 9075. When connected to the Android tablet the Bluetooth LED will illuminate.

3. Attach the 9075 to the measurement point of the machine under test.

   Note: For best results the sensor should be placed gently onto the measurement point by "rolling" the magnet onto the machine. This is done to avoid any sudden shocks that would be seen as large acceleration peaks by the sensor and could take some time (several seconds) to go away.

4. Use the Ultra III app to perform measurements with the 9075. Measurement data will be sent from the 9075 to the Ultra III app. Please see the Ultra III app instruction manual for additional information.

SPECIFICATIONS

9075 Signal Parameters	
Frequency Range / Resolution	2Hz to 10kHz l 100 to 51,200 Lines
BDU - Bearing Noise - Frequency Range	1kHz - 10kHz
Dynamic Range	108dB
A/D Converter	24 bit
9075 Information	
Connection	Bluetooth
Battery	2000mAh Lithium-Ion battery
Charger	Wireless through charging pad
IP Rating	IP 67
Operating Temperature	32 to 113°F (0 to 45°C) – charging 32 to 140°F (0 to 60°C) – discharging
Storage Temperature	-4 to 140°F (0 to 60°C)
Dimensions & Weight	1.9"" x 3.4" x 1.9" (47mm x 84.8mm x 47mm) / 9.8oz (280g)
ULTRA III App	
Screen Cursors	Single, Harmonic, Moving Harmonic, Sideband, and Time/Frequency for waveform
Band Alarms	Yes
Peak to Peak Displacement	Yes
No tachometer (4-run) Balancing	Yes
Balancing RPM (Range) Low Limit	120 RPM
Diagnostic Features	Velocity, BDU, Displacement, Demod, Coast Down
Ultra III Route Transfer	
USB-C	Yes
Bluetooth	Yes
Cloud	Yes

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STANDARD ACCESSORIES

A9073 – 1/4x28 magnet

A9120 – Wireless charging pad and USB cable

OPTIONAL ACCESSORIES

A9114 – Universal USB charging puck

WARRANTY

This product is warranted to the purchaser against defects in material and workmanship for three years from the date of purchase.

Covered by Warranty: Repair parts and labor; or replacement of the product at company's option. Normal transportation charges to the purchaser are also covered.

Not Covered by Warranty: Damages to the product which are the result of abuse, improper use or maintenance are not covered. Any other expense, consequential damages, incidental damages, or incidental expenses including damages to property are not covered. Transportation expenses to the company are not covered.

Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

To Obtain Warranty Performance: Include with the product: your name, address, phone number, written description of the problem and proof of purchase date. Carefully package and return to:

TPI, Inc.	**TPI Canada**	**TPI, Europe Ltd..**
9615 SW Allen Blvd.	**342 Bronte Rd. S., Unit 6**	**Unit 6, Rutherford Way Industrial Estate**
Beaverton, OR 97005	**Milton, Ontario L9T 5B7**	**Rutherford Way, Crawley**
USA	**Canada**	**West Sussex. RH10 9LN**
503-520-9197	**905-693-8558**	**+44 (0) 1293 53019**
www.testproductsintl.com	**www.tpicanada.com**	**www.tpieurope.com**

Implied Warranties: Any implied warranties including implied warranties of merchantability and fitness for a particular purpose, are limited in duration to three years from date of purchase. To the extent any provision of this warranty is prohibited by federal or state law and cannot be preempted, it shall not be applicable. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

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