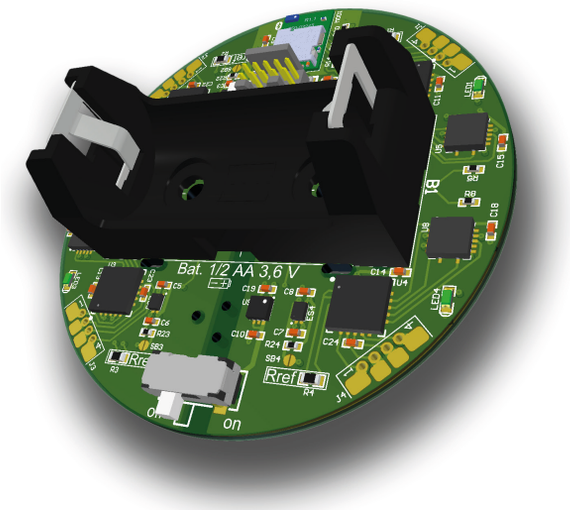


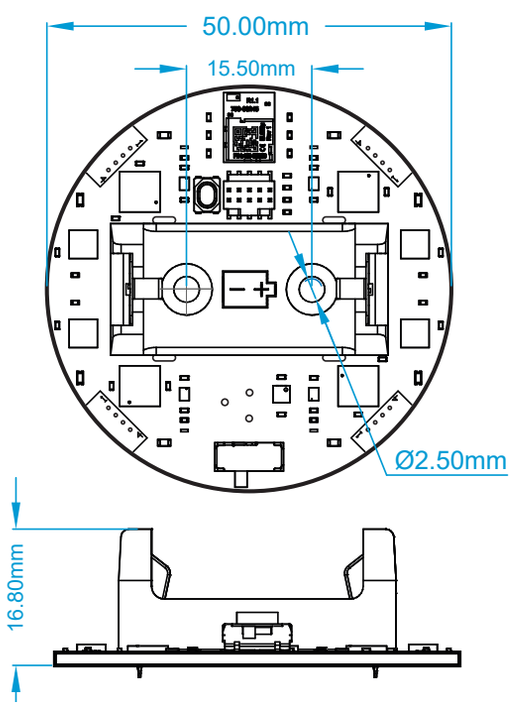
Wireless thermometer

Four-channel wireless thermometer based on Bluetooth for laboratory temperature measurements.

Overview

The wireless thermometer is low-power measuring laboratory equipment. The primary usage is for measuring temperatures in rotating parts of electric machines. However, it can also be used in other applications where the temperatures have to be measured. The key features are low weight, up to four sensors for simultaneous measurement, battery power, long life and the ability to download measurement data directly to a PC or mobile phone in real-time via the standardized Bluetooth Low Energy protocol.

An easy-to-use application is also available to connect the thermometer to a computer and download and save the data to a CSV file. In addition, the thermometer is tested up to 6500 RPM speed which makes it suitable for measuring the temperature of high-speed machines.



Key features

- 4-channel thermometer
  - based on RTD sensors
  - PT100 – PT1000
  - 2, 3 or 4-wire measurement
  - total accuracy of 0.5°C
  - variable measure interval
- Bluetooth
  - range up to 20 m
  - connection with PC or mobile phone
- Battery life
  - up to 1 month (10 s measurement interval)

Specifications

Voltage range:	3.3 to 5.5 V
Current consumption:	2 mA (idle state)
	5 mA (one sensor on)
RTD sensor:	100 to 1000 Ω (at 0°C)
RTD connection:	2, 3 and 4-wire
ADC resolution:	15-bit
Total accuracy:	±0.5°C
Measurable temp. range:	-200°C to +850°C
Used battery:	1/2 AA size, voltage 3.6 V recommended: SL350/S
Max rotating speed:	up to 6500 RPM
Board temperature range:	-40°C to 105°C
Weight (without battery):	11.5 g
(with battery):	20.1 g

 ~ www.vladimirpokorny.cz/thermometer