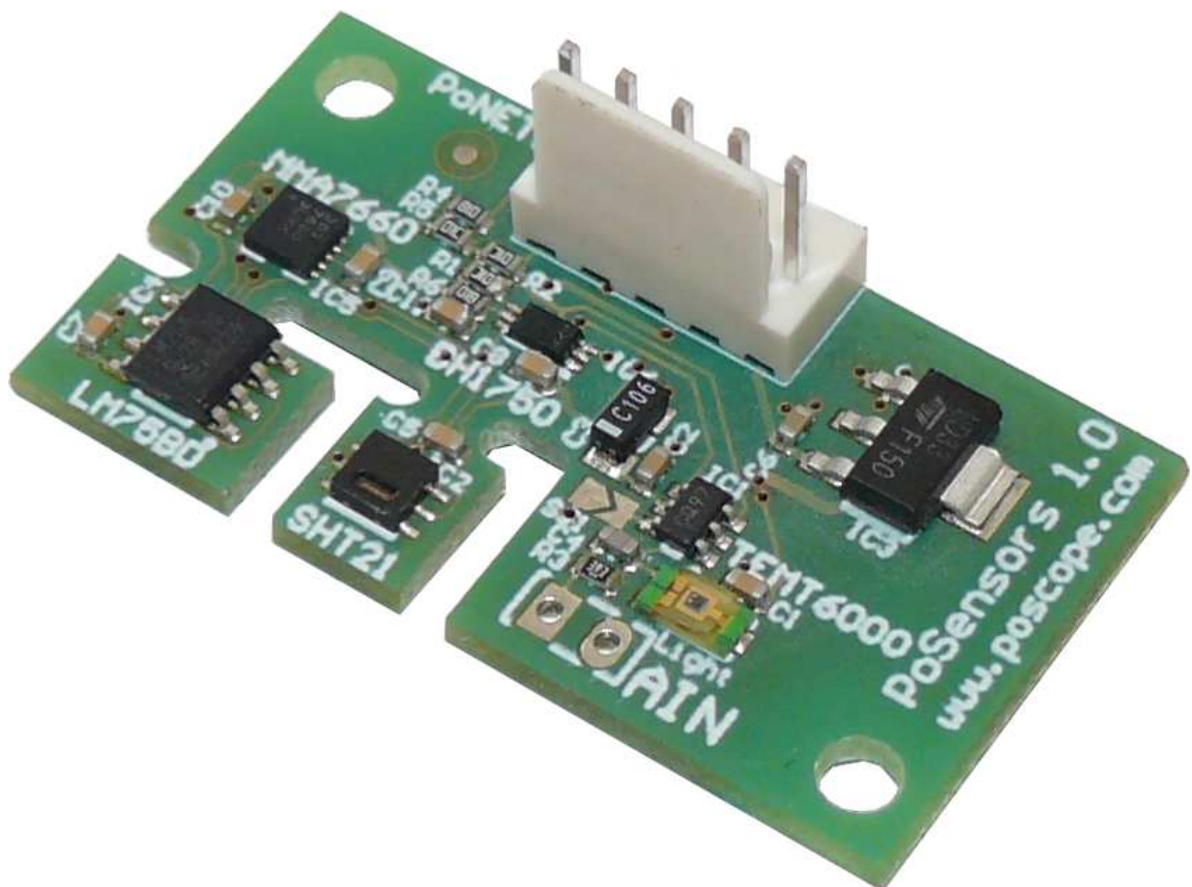


PoSensors User's manual



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1. Description

PoSensors is a small size sensor board with a total of 6 sensors. It can be connected to the PoKeys device via dedicated PoNet connector.

Features

- Uses dedicated 5-pin connector
- Simple to use
- Two temperature sensors
- Humidity sensor
- Light sensor
- 3 axis accelerometer
- 16 bit analog to digital converter

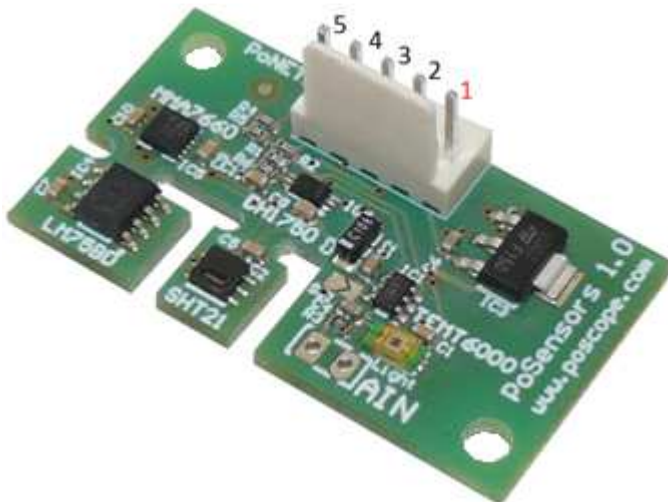
Requirements

- Master device with available PoNET port or
- Device with available I²C pins

Pinout

Pin	Function
1	+5V
2	GND
3	SDA
4	LATCH
5	SCL

Note: Pin 1 has rectangular pad which can be visible on the bottom side.



2. Connection examples

PoNET interface

To connect the PoSensors to PoKeys master device use the cable that came with the module. Simply connect one end to the master device and the other to PoSensors.

For alternative connection to the PoKeys master device please refer to the PoKeys master device chapter 8.14 I²C protocol.

To setup the PoSensors open PoKeys software and connect to your PoKeys master device. Once connected, click on Peripherals -> Sensors to open the configuration dialog. A click on »Scan for devices« will scan for all I²C devices connected and will display them. You can also check »Auto add new« and the devices will be automatically added.

For more information please read the PoKeys master device user manual, chapter: 8.16. Sensors.

3. Sensors

The module features a total of 6 sensors.

Sensors:

- MMA7660 (accelerometer)
- MCP3425 (16 bit A/D converter)
- BH1750 (light sensor)
- LM75BD (temperature sensor)
- SHT21 (humidity and temperature sensor)

4. Arduino example

Also available for download is code for Arduino. It shows basic I²C interface for each sensor and displays the sensor data on serial monitor.

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