## One-wire temperature sensor:

The one-wire temperature sensor can be connected to J14, see image 1

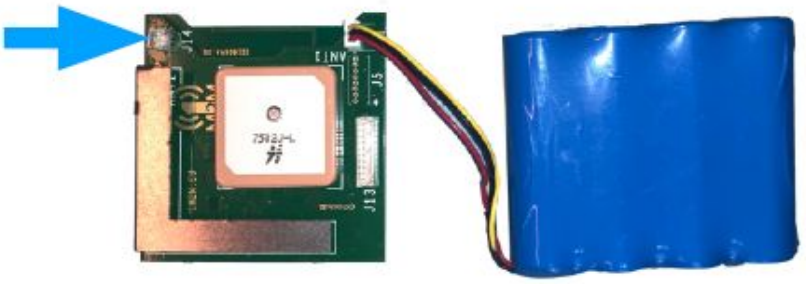


Image 1

**J14, 2-pin connector**

There are two versions of the one wire connection. Older units will have the 2-pin connector and therefore need an extra power supply which can be connected to J13 pin 3.

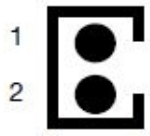



Image 2

Pin 1 = 1-wire protocol compatible with DS18B20

Pin 2 = GND

**J14, 4-pin connector**

The newer ED1608 boards have a 4-pin connector for the one-wire sensor..

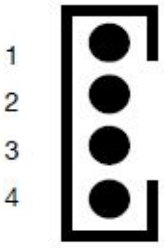



Image 3

Pin 1 = GND

Pin 2 = 1-wire protocol compatible with DS18B20

Pin 3 = 3.0V (via 47 Ohm)

Pin 4 = GND

## Interface connections on J13 (see images 4 and 5):

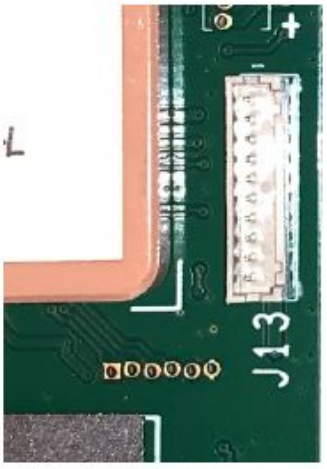
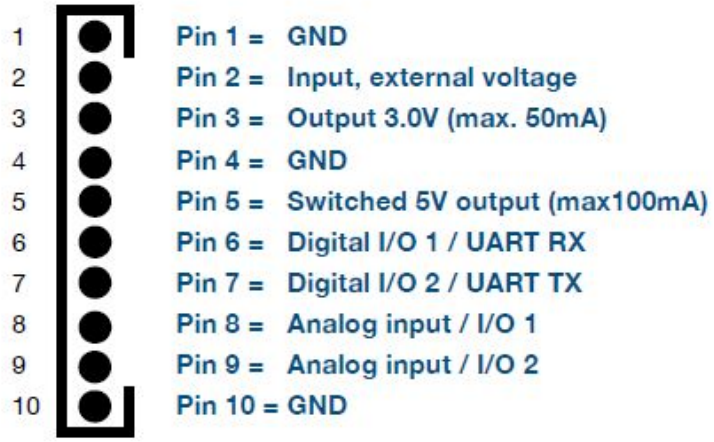



image 4




All voltages max. 5V except pin 2, max 5,5V

image 5

## Analog inputs:

Pin 8 and 9 are analog inputs. **Warning! Both inputs are equipped with an overvoltage protection, so do not connect voltages higher than 5V.**

Input impedance of both analog inputs is 400KOhm to ground. The circuit has a 1st order low-pass filter with -3dB at 300Hz.

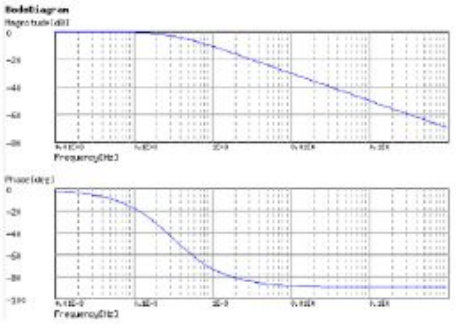


image 6

## 4-20mA input circuit example for analog pin 9:

To connect a 4-20mA sensor to the ED1608 you can use one of the analog pins in combination with a 200 Ohm resistor (100mW). On request 1M2M can deliver this special cable.