Temperature & Analog Adapter Board

#PT1000

for BieneRemote128GM-PT1000

Temperature & Analog Adapter Board used for connection BieneRemote128GM module with one, two, three or four Pt1000 temperature sensors and with up to four 0-5V/0-10V analog signals (0-20mA/4-20mA optional).

**Temperature Sensors Pt1000 connection**

Connect one, two, three or four temperature sensors Pt1000. Use shielded two wire cable with 1mm wire.

4-wire Pt1000 connection for long cable (>10m)
3-wire Pt1000 connection (<10m)

2-wire Pt1000 connection (<10m)
Analog inputs connection

Adapter board has four screw terminal blocks for analog signal connection. Each input has diode protection. This board has also schematic for 0-10V or 0-5V analog signal connection. User also can individual for each analog input mount 249Ohm precision resistor for 0-20mA or 4-20mA.

Analog input schematic:

![Diagram of analog input schematic]

Diode and serial resistor used for microcontroller analog input protection. Input analog signal divide to 2.

BieneRemote16 and BieneRemote128 analog signal measurement.

Reference set to +5V.

- 0-10V: 0V – 0%; 5V – 50%; 10V – 99%
- 0-5V: 0V – 0%; 2.5V – 25%; 5V – 50%
- 0-20mA: 0mA – 0%; 10mA – 25%; 20mA – 50%
- 4-20mA: 4mA – 10%; 10mA – 25%; 20mA – 50%

Reference set to +2.56V.

- 0-10V: 0V – 0%; 5V – 99%; 10V – 99%
- 0-5V: 0V – 0%; 2.5V – 49%; 5V – 98%
- 0-20mA: 0mA – 0%; 10mA – 49%; 20mA – 98%
- 4-20mA: 4mA – 10%; 10mA – 49%; 20mA – 98%

Note: 0-20mA and 4-20mA only with 250 Ohm resistor.

Connection to BR128GM

Adapter has two 2x8 socket P2 and P3 for insertion in P2 and P3 2x8 pin header on BieneRemote128GM.
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BieneRemote128GM with Temperature & Analog Adapter Board #PT1000 show on figure below.