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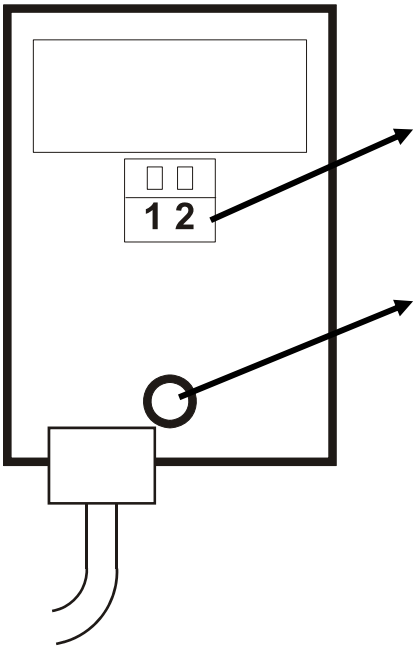
Thermocouple

The thermocouple was invented for high temperature detection in conjunction with the UVR control units. It is suitable to measure the exhaust gas temperature in a heating tube, for example.

The thermocouple has the following features:

- Temperature detection up to 600°C
- Maximum temperature of sensor cable: 300 °C
- Measuring amplifier transforms the sensor signal into temperature (display is measured ten times smaller, for instance: 500°C → displayed at the controller: 50.0°C)
- Observe polarity when connecting:
  Blue = earth, brown = sensor input
- The output signal essentially corresponds to that of a **KTY** temperature sensor.
  Exceptions:
  - For controllers UVR61-3 from version 5.0 and UVR63H from version 5.0, the signal must be evaluated as a radiation sensor **GBS** (with the incorrect physical units W).
  - For CAN I/O modules from version 2.00, to achieve a correct evaluation of the signal the sensor type must be set as "**THEL**".



The sensor cable connections at the measurement amplifier must not be interchanged:

1 = White

2 = Green

Mounting:

Drill out the 5mm hole on the rear side of the measurement amplifier

Dimensions:

Sensor tube length: 95mm, diameter: 4 mm

Sensor cable length: 163 cm (THEL 1.63M) or 250 cm (THEL 2.50M)

Measurement amplifier: width: 61 mm, height: 43.5 mm, depth: 19 mm, cable length: 180cm

Subject to technical modifications