



### Desert sand and frozen soil...

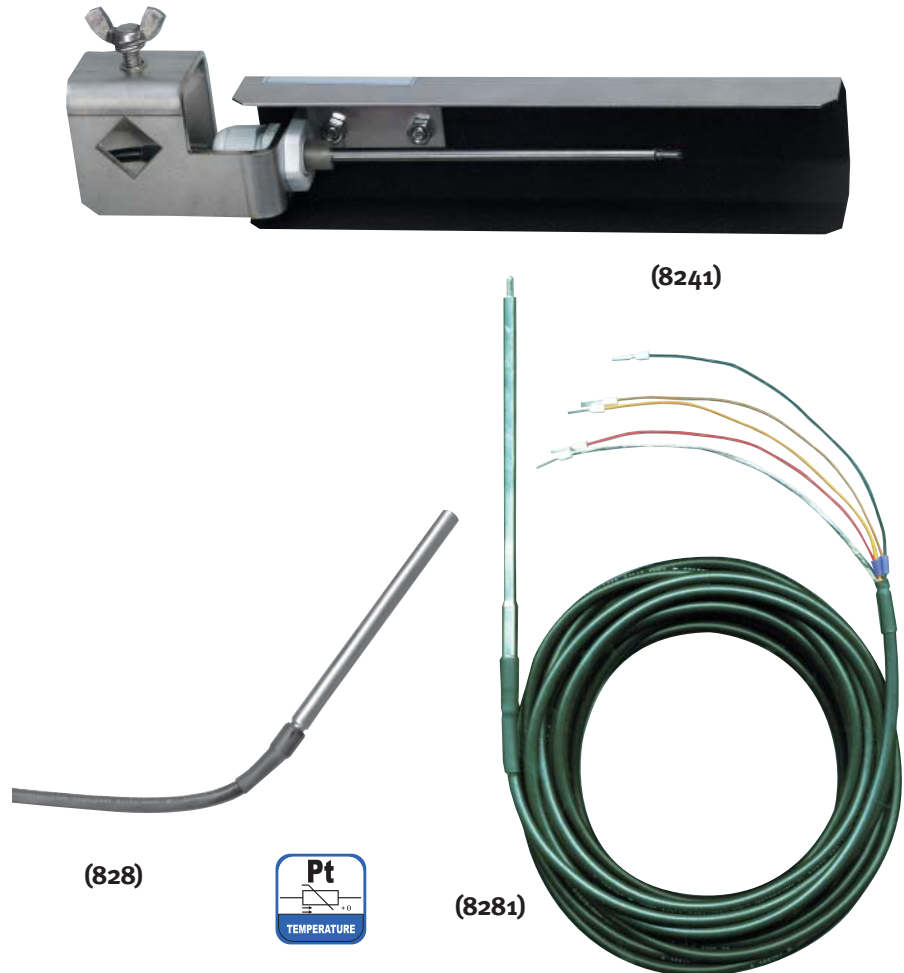
are the objects to be measured. They are the starting point for the right choice of sensors. The soil sensor (828) is waterproof and is used to measure water and soil temperatures precisely.

Best suited for temperatures of about 5 cm above ground (grass level) is instrument (8241), which includes radiation protection and mounting rod.

For measurement of air temperatures in higher areas, sensor (8281) is best suited.

- ▶ world-wide popular standard measuring elements
- ▶ robust, corrosion resistant through stainless steel housing

automatic weather stations • meteorology and environmental measurement technology • building systems • general climate monitoring • industrial metrology



### Professional Line

Measuring element:  
Measuring range/ Accuracy:  
Operating temperature:  
Output:

#### Varieties:

**00.08241.000 000**

Range of application:  
Dimensions/ Weight:

**00.08280.008 503**

Range of application:  
Dimensions/ Weight:

**00.08281.008 005**

Range of application:  
Dimensions/ Weight:

#### Accessories:

**00.08141.400 000**

**32.08141.001 010**

**00.08763.012 002**

### Temperature Sensors

platinum thermometer • Pt 100 1/3 DIN 43760 class B  
-30...+70 °C • ± 0.1 °C at 0 °C  
-60...+90 °C  
Pt 100 • 4-wire circuit

see also Humidity-Temperature Sensors (809).

**(8241)**

**Air Temperature Sensor** with protection roof against radiation

grass temperature 50 mm above ground  
L 120 mm • Ø 5 mm • cable length 7.5 m • approx. 1 kg incl. protection- and installation equipment (250 x 60 x 45 mm)

**(828)**

**Soil Temperature Sensor**

soil- or water temperature  
L 105 mm • Ø 8 mm • cable length 7.5 m • approx. 0.4 kg

**(8281)**

**Air Temperature Sensor**

air temperature  
L 120 mm • Ø 5 mm • cable length 7.5 m • approx. 0.3 kg

**(8141.4)**

**Sensor shelter**

**Adapter** for mounting of sensor (8281)

**(8763TH)**

**Two-channel transducer** (optional)