



**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 5cm 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	Series	Temperature Sensors
Measuring element: Measuring range/ Accuracy: Operating temperature: Output: Varieties: <b>00.08241.000 000</b>	<b>(8241)</b>	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 page 41 Humidity-Temperature Sensors (809)
Range of application: Dimensions/ Weight: <b>00.08280.008 503</b>	<b>(828)</b>	<b>Air Temperature Sensor</b> with protection roof against radiation grass temperature 50 mm above ground L 120 mm · Ø 5 mm · cable length 5 m · 1 kg incl. protection- and installation equipment (250 x 60 x 45 mm)
Range of application: Dimensions/ Weight: <b>00.08281.008 005</b>	<b>(8281)</b>	<b>Soil Temperature Sensor</b> soil- or water temperature L 105 mm · Ø 8 mm · cable length 7.5 m · 0.4 kg
Range of application: Dimensions/ Weight: <b>00.08141.300 000</b> <b>32.08141.XXX XXX</b> <b>00.08763.012 002</b>	<b>(8141.3)</b> <b>(xxxx)</b> <b>(8763TH)</b>	<b>Air Temperature Sensor</b> air temperature L 120 mm · Ø 5 mm · cable length 5 m · 0.3 kg <b>Sensor shelter</b> , see page 100. <b>Adapter</b> for mounting of sensor (8281) on request. <b>Two-channel transducer</b> (optional), see page 102.

