

DTS12G Soil Temperature Sensor



The sensor enables measurement of

- ground temperature [°C].

The measurement of ground temperature is necessary for performance of short and long-term forecasts of road surface temperature.

The DTS12G series temperature probes are specially designed for outdoor use with automatic weather stations. The water-tight, weather resistant design ensures reliable temperature measurements in extreme conditions.

The housing of the platinum resistance (Pt-100) sensing element is made of stainless steel, located in the tip part of the assembly. The cable screen is attached to the sensor housing, hence providing a good shield against Electro-Magnetic Interference (EMI).

The DTS12G series probes can be used with the equipment operating either with the resistor bridge principle or constant current principle.

TECHNICAL DATA

Measurement range	-80°C ... +80°C
Accuracy	1/4 DIN 43760 B ($\pm 0.08^\circ\text{C}$ in 0°C)
Sensor type	platinum resistor Pt-100, (1/4 DIN 43760B)
Sensor housing material	stainless steel
Water tight rate	water resistant IP68
Supply voltage	7 ... 30 VDC
Cable length	30 m