

TH-46 PRECISE TEMPERATURE AND HUMIDITY PROBE



Precision meteorology probes for relative humidity and temperature -- TH-46

- * **Meteorology**
- * **Agriculture**
- * **Forest**

Professional meteorology probes for reliable measurements under extremely rough conditions.

Convincing features

- * **Maintenance-free humidity and temperature measurement**
- * **Compact dimensions**
- * **High long-term stability**
- * **Short response time**
- * **Linear voltage outputs for humidity and temperature**
- * **Operating ranges**
Relative humidity : 0 ... 100% relative humidity
Temperature : -40 ... +60

Technical data of the TH-46 probe and 884 Solar shield

Humidity/temperature probe	
Protection	IP65
Humidity sensor	Hygromer
Temperature sensor	RTD Pt100 1/3 Class B
Relative humidity operating range	0 ...100% relative humidity
Temperature operating range	-40 ...+60
Output signals (linear)	
Humidity	0 ...1VDC= 0 ... 100% relative humidity
Temperature	0 ...1VDC= -40 ...+60
Output load	> 10K
Measuring principle	Humidity : Capacitive Temperature : Resistance
Calibration accuracy, humidity (at 23 °C)	±1.0% RH
Calibration accuracy, temperature	±0.15 °C (typical 0.1 °C)
Typical long-term stability	Typical 1% rh/year, 0.1 °C
Response time	@ 3s(% relative humidity), @ 3s(°C)
Supply voltage (min./max)	Nominal : 3.8VDC (3.2 ... 4.8VDC)
Current consumption	Approx. 4mA
Cable length	5M
Dimensions	@ 135*17mm

Solar Shield	Model 884
Material	UV stabilized white thermoplastic plates
Principle	Natural ventilation
Power	No power required

WIRING DIAGRAM

