

MP 101A PRECISE TEMPERATURE AND HUMIDITY PROBE



Precision meteorology probes for relative humidity and temperature -- MP101A

- # Meteorology**
- # Agriculture**
- # Ice-warning systems**

Professional meteorology probes for reliable measurements under extremely Rough conditions.

Convincing features

- # Maintenance-free humidity and temperature measurement**
- # Cable length compensation up to 100m**
- # Humidity sensor extremely resistant to pollutants**
- # 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° C

Technical data of the MP101A probes

Humidity/temperature probes	
Protection	IP65
Humidity sensor	HYGROMER-C94
Temperature sensor	RTD Pt100 ohms
Relative humidity operating range	0..100% relative humidity
Temperature operating range	-40..+60° C
Output signals (linear)	
Humidity	0..1VDC=0..100% relative humidity
Temperature	-40..+60° C =-0.4..+0.6VDC
Load per output	min 1000 ohms
Measuring principle	Humidity: Capacitive Temperature: Resistance
Calibration accuracy, humidity (at 23° C)	± 1.5% (10%..95%) ± 2.5% (<10% OR >95%)
Calibration accuracy, temperature	± 0.3° C
Reproducibility	0.5% relative humidity, 0.1° C
Typical long-term stability	Typical 1%rh/year, 0.1° C
Response time	<15s(%relative humidity), <15s (° C)
Adjustment points (potentiometer) - humidity	35%, 80%, min
Adjustment points (potentiometer) - temperature	Tmin. and Tmax
Supply voltage (min./max)	4.8..26.5VDC
Max. current consumption	<4mA
Weight	170g