



The MT-TH0002 series temperature and humidity probe can be used in a wide variety of environments and is excellent for use in automatic meteorological stations. It interfaces easily with data loggers and recorders, is simple to service, and features EMI/RF protection.

With one of the most reliable transducers available, the MT-TH0002 probe provides up to 100 percent RH measurement with high accuracy. It has negligible hysteresis and excellent long-term stability, even in extremely high humidity. It is also insensitive to dust and has good tolerance to chemicals.

This probe combines advanced microprocessor and ASIC technology with a robust plug-in design. The digital processing allows accurate linearization and temperature compensation over the entire operating range. It has 100 percent interchangeability to reduce user maintenance costs and practically eliminate downtime. If repairs are needed, the probe head, which contains the transducer and electronics, can be quickly removed and replaced, and measurements can continue within moments. The probe has no calibration requirements.

The combined performance of the probe and NEMA4 protected housing enables you to make accurate and repeatable temperature and humidity measurements. The probe can operate from a wide range of supply voltages and has low power consumption. Combine these features with the probe's wide temperature range, temperature compensation, and full-scale humidity range, and you have a versatile solution for multiple applications.

Technical Specifications

Operating temp:	-40 to +60°C (-40 to +140°F)
Storage temp:	-40 to +60°C (-40 to +140°F)
Supply voltage:	3.6 to 50 VDC @ <4mA
Settling time:	<0.7s
Output load:	>10K ohm to ground
Weight:	350 g
Cable length:	3.5 m
Housing:	ABS plastic. NEMA4 (IP65)
Protection:	Membrane filter, sintered filter, or grid
Protection grade:	IP65

Relative Humidity Performance

Range:	0 to 100%
Output:	0 – 100% equals 0 to 1 VDC
Resolution:	0.02% RH
Accuracy:	±1.5% RH at 20°C, factory calibration
Stability:	<1% RH per year
Response:	15 sec with membrane filter

Temperature Performance

Range:	-40 to +60°C (-40 to +140°F)
Output:	-40 to +60°C equals 0 to 1 VDC
Resolution:	0.06°C
Accuracy:	±0.2°C
Sensor:	Pt100 IEC 751 1/3 Class B

Ordering Options

Temperature and relative humidity probe with EMI protection, Pt 100 temperature sensor, and 0 to 1 V outputs.

MOK inline connector with 6 ft. cable and tinned ends.

Temperature and relative humidity probe with EMI protection, Pt 100 temperature sensor, 0 to 1 V outputs, configured for MARS.

**The MT-TH0002 Professional Temperature/
Relative Humidity Probe
is an excellent choice for aviation use.**

