

**Description**

The Temperature/Humidity Probe is a self-contained unit with a solid state temperature sensor and wide range humidity sensor giving a linearized output of 10mV per °C and 10mV per %RH respectively. The unit operates from 6 to 12 volts DC. Connection is via a standard circular DIN connector. The mating connector with an 8 foot [2.4m] cable is supplied. The probe operates within +/- 4°C over a 5 to 50 °C temperature range. The humidity output is accurate to ±3% (typical) over a 20 to 80 %RH range and the temperature output is typically within ±0.4°C. The probe is made of anodized aluminum with plastic end pieces. When used with the DataChart 1250, no additional power supply is required as power is provided directly from the recorder.

**Specifications****Temperature:**

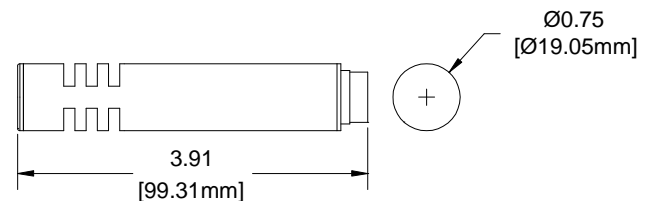
Parameter	Conditions	Typical	Max	Units
Range	-	0 - 50	0 - 100	°C
Accuracy	at 25 °C	±0.4	±1.0 (0 to 50 °C)	°C
Repeatability		±0.1	±0.5	°C
Output		10		mV/°C

Humidity:

Parameter	Conditions	Typical	Limits	Units
Range		10 - 90		%RH
Accuracy	20 to 80 %RH	±3	±4	%RH
Operating Temp		5 to 50		°C
Hysteresis		±1		%RH
Response Time		4		Secs
Output	10 to 90 %RH @ 25 °C	10		mV/% RH

General:

Parameter	Conditions	Typical	Limits	Units
Supply Voltage		8	6 - 12	Vdc
Supply Current		2	4	mA dc

Dimensions:**Connection:**

The probe has a threaded circular DIN connector - 4 pin male, and is supplied with a mating connector and 8 foot (2.4m) cable. The connections are as follows:

Connector Pin	Cable	Function
1	Green	Power Supply Common (0 Volts)
2	Red	Power Supply Input (6 to 12 Vdc)
3	White	Temperature Out (10mV/°C)
4	Black	Humidity Out (10mV/%RH)
	Braid	Shield or Screen