225-41382 Series Temperature & Humidity Sensors

The **210-41382 Temperature & Humidity Probe** combines high accuracy humidity and temperature sensors in a single probe. Three output options are available: 0-1 VDC, 0-5 VDC, and 4-20 mA.

The temperature / humidity probe should always be installed in a protective radiation shield to ensure accurate data. Use of the probe without a radiation shield may result in large errors. The probe installs easily in the recommended radiation shields listed in the ordering information below.

Connections to the sensor are simplified by the junction box with cable entry gland. All connections are screw-terminal type. Cable sold separately.

Model 225-41382xx	Current (suffix L)	Voltage (suffix V)
Output Signal	4-20 mA	0-1 Vdc or 0-5 Vdc (jumper option)
Power Required	5-30 VDC, 46 mA max	8-30 VDC at 7 mA
Recommended Cable	2 Pair shielded, 22AWG	5 conductor shielded, 22AWG
Temperature (Platinum RTD)	**Celsius (suffix C)**	**Fahrenheit (suffix F)**
Measuring Range	-50 to +50°C	-50 to +150°F
Accuracy at 23°C	±0.3°C	±0.5°F
Response Time	10 seconds (Without Filter)	10 seconds (Without Filter)
Relative Humidity		
Measuring Range	0-100% RH	
Accuracy at 23°C	±1%	
Stability	Better than ±1%RH per year	
Response Time	10 seconds (Without Filter)	
Sensor Type	Rotronic Hygromer	

CE This product has been tested and complies with European CE requirements for the EMC Directive. Please note that shielded cable must be used.

Ordering Information

225-41382LC2	Humidity & Temperature Probe, °C, 4-20 mA output
225-41382LF2	Humidity & Temperature Probe, °F, 4-20 mA output
225-41382VC	Humidity & Temperature Probe, °C, 0-1 Vdc output
225-41382VF	Humidity & Temperature Probe, °F, 0-1 Vdc output
330-18723	Cable, 2 pair shielded, 22 AWG (order per foot)
330-18446	Cable, 5 conductor shielded, 22 AWG (order per foot)
380-43502	Aspirated Solar Radiation Shield
380-41003P-24	Solar Radiation Shield (sensor diameter 24 mm)

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