

## 110-WS-25THA Temperature & Humidity Sensor with Sunshield

The **110-WS-25THA** is a high quality and low cost instrument for weather monitoring. The low power requirement is ideal for stations operating from solar power.



### Relative Humidity

Humidity sensor	Vaisala INTERCAP® (replaceable)
Measurement Range	0 to 100% RH
Typical accuracy:	
at 0 ... +40 °C (+32 ... +140 °F)	±3 %RH (0 ... 90 %RH) ±5 %RH (90 ... 100 %RH)
at -40 ... 0 °C and +40 ... +60 °C (-40 ... +32 °F and +104 ... +140 °F)	±5 %RH (0 ... 90 %RH) ±7 %RH (90 ... 100 %RH)

### Temperature

Temperature sensor	1000 ohm platinum resistive element (RTD)
Measurement range	-40 ... +60 °C (-40 ... +140 °F)
Accuracy:	
at +10 ... +30 °C (+50 ... +86 °F)	±0.5 °C (±32.9 °F)
at -40 ... +10 and +30 ... +60 °C (-40 ... +50 and +86 ... +140 °F)	±0.6 °C (±33.08 °F)

### Analog outputs

2 channels	0 ... 1 VDC
Start-up time	4 seconds
External loads	RL min. 10 kΩ
Accuracy at +20 °C (+68 °F)	±0.2 % of FS
Temperature dependence	±0.01 % of FS/°C (±0.006 % of FS/°F)

### Power requirements

Power consumption	1 mA average, max. peak 5 mA
Operating voltage	5 ... 28 VDC

### Operating environment

Operating temperature	-40 ... +60 °C (-40 ... +140 °F)
IP rating	IP65
EMC compliance	EN 61326-1, industrial environment
Regulatory compliance	CE, ROHS Directive, EMC Directive

### Mechanical

Probe body	Stainless steel (AISI 316)
Probe filter	Chrome coated ABS plastic (replaceable)
Probe connector	4-pin M8 (IEC 60947-5-2)
Cable	24 AWG, 4 conductor, shielded, 40 feet (12 m), tinned leads
Radiation Shield	UV stabilized ABS plates, PVC top cap and lower shroud, powder-coated aluminum mounting bracket
Mounting	1.25" o.d. pipe with stainless steel U-bolt
Size	4" Dia x 6" H x 6" L (102 x 152 x 152 mm)
Weight / Shipping	1.6 lb (0.73 kg) / 2.25 lb (1.0 kg)

### Ordering Information

110-WS-25THA	Temperature & Relative Humidity Sensor with Solar Radiation Shield
220-15778HM	Replacement Humidity Chip for HMP60
220-17039HM	Replacement Membrane Filter for HMP60