

225-HMP60x Temperature & Humidity Sensor

The **225-HMP60** 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	HMP60A: 0 ... 1 VDC	HMP60C: 0 ... 5 VDC
Start-up time	4 seconds	
External loads	HMP60A: RL min. 10 kΩ	HMP60C: RL min. 50 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	HMP60A: 5 ... 28 VDC	HMP60C: 8 ... 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	Polyurethane or FEP, 12 inch (30 cm), tinned leads
Size	0.47" Dia (12 mm) x 3" L (80 mm), threaded M12 x 1
Weight / Shipping	1 oz (28 g) / 0.4 lb (182 g)

Ordering Information

225-HMP60A	Relative Humidity and Temperature Sensor (0-1V outputs)
225-HMP60C	Relative Humidity and Temperature Sensor (0-5V outputs)
220-15778HM	Replacement Humidity Chip for HMP60
220-17039HM	Replacement Membrane Filter for HMP60
330-0524	24 AWG, 5 conductor, shielded, extension cable (per foot)