





DATA SHEET





Relative humidity and temperature probe for clean rooms

Description

Interchangeable panel hygrometry probe for cleanrooms: 0 to 100 %RH, -20 to 80 °C (-4 to 176 °F). Stainless steel body and sintered filter. Autolock connector. Si-ACC-RVP cable is needed to connect to Si-CPE320 transmitters. Supplied with adjustment certificate.

Advantage:

- Flush mount probe
- High accuracy and long-term stability
- VHP resistant
- Easy to install deatachable probe cable
- Enables the calculation of psychrometric values

Designation: Si-PRO-U-W Sales reference: 27987

Main applications:

• Clean room/air cabinet, connected to a Si-CPE320 transmitter

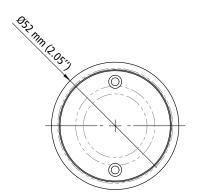
Technical features

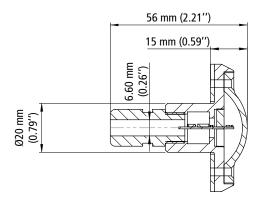
Parameter	Measuring range	Accuracy*	Resolution
Pt 100 temperature (°C, °F)	-20 to 80 °C (-4 to 176 °F)	± 0.25 °C $\pm 0.2\%$ of measured value (± 0.45 °F $\pm 0.2\%$ measured value)	0.1 °C, 0.1 °F
Relative humidity (%RH)	0 to 100%RH	± 2.0 %RH (from 40 to 80 %RH) Temperature dependence: ± 0.04 x (T-20) %RH (if T<15°C or T>25°C)	0.1 %RH
Wet temperature** (°C _{tw} , °F _{tw})	-50 to 100 °C _{tw} (-58 to 212 °F _{tw})	-	0.1 °C _{tw} 0.1 °F _{tw}
Dewpoint** (°C _{td} , °F _{td})	-50 to 100 °C $_{td}$ (-58 to 212 °F $_{td}$)	-	0.1 °C $_{td'}$ 0.1 °F $_{td}$
Frost point** (°C _{tf} °F _{tf})	-50 to 100°C _{tf} (-58 to 212 °F _{tf})		0.1°C _{tf} 0.1°F _{tf}
Absolute humidity** (g/m³)	0 to 1000 g/m ³	-	0.1 g/m³
Enthalpy** (kJ/kg)	0 to 15,000 kJ/kg	-	0 to 9999.9: 0.1 kJ/kg 10,000 to 15,000: 1 kJ/kg
Mixing ratio** (g/kg)	0 to 1000 g/kg	-	0.1 g/kg

All the accuracies indicated in this technical datasheet were stated in laboratory conditions, and can be guaranteed for measurements carried out in the same conditions, or carried out with calibration compensation.

^{**}Calculated value

Probe dimensions





Probe cable connection

A probe cable of 2 m length is mandatory to connect the probe to a Si-CPE320 transmitter:

• Si-ACC-RVP; Sales reference: 28002

2 extension cables are also available:

• 5 m length: Si-ACC-R5; Sales reference: 28000

• 10 m length: Si-ACC-R10; Sales reference: 28801

It is possible to combine probe cables, up to a maximum total length of 12 m.

Accessories (see specific data sheet)

• Cable extensions

