

Technical Data Sheet

Pressure / Temperature / Humidity / Air Velocity / Airflow / Sound level

Probes and interchangeable boards for class 310 sensors

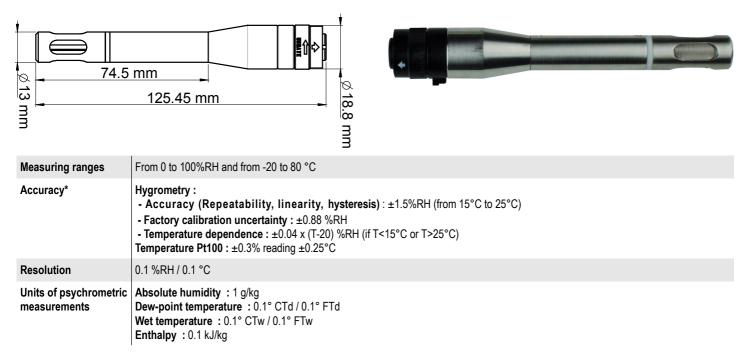
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HYGROMETRY/TEMPERATURE PROBES

> Stainless steel hygrometry/temperature probes

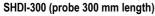
Interchangeable hygrometry and ambient temperature probe in stainless steel with stainless steel filter. Standard mounting probe 120 mm length with a watertight connector of 1/4 turn. In option : protective tips, filters. Supplied with adjusment certificate. Ref : SHSI

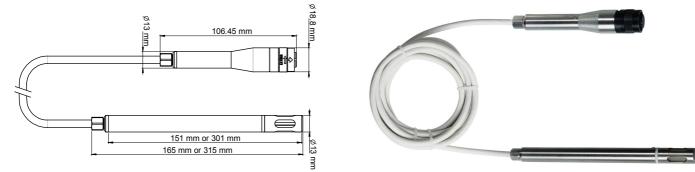


*All the accuracies indicated in this technical datasheet were stated in laboratory conditions, and can be guaranteed for measurements carried out in the same conditions, or carried out with calibration compensation.

Interchangeable hygrometry and temperature probe in stainless steel with stainless steel filter. Remote probe 150 mm length or 300 mm, 13 mm diameter. White silicone cable 2 m length with watertight connector 1/4 turn. In option : protection socket, filters. Supplied with adjustment certificate.

Ref : SHDI-150 (probe 150 mm length)

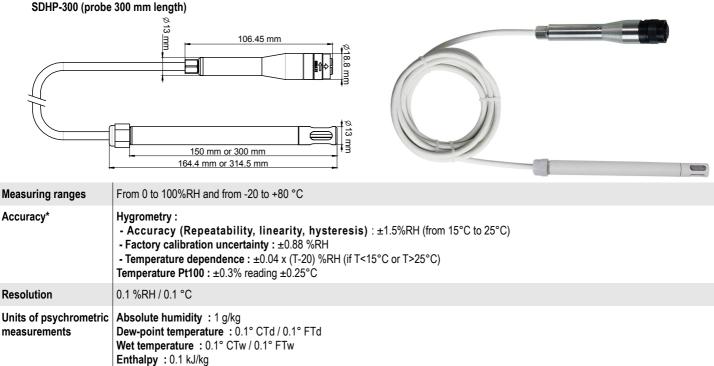




Measuring ranges	From 0 to 100%RH and from -40 to +180 °C
Accuracy*	Hygrometry : - Accuracy (Repeatability, linearity, hysteresis) : ±1.5%RH (from 15°C to 25°C) - Factory calibration uncertainty : ±0.88 %RH - Temperature dependence : ±0.04 x (T-20) %RH (if T<15°C or T>25°C) Temperature Pt100 : ±0.3% reading ±0.25°C
Resolution	0.1 %RH / 0.1 °C
Units of psychrometric measurements	Absolute humidity : 1 g/kg Dew-point temperature : 0.1° CTd / 0.1° FTd Wet temperature : 0.1° CTw / 0.1° FTw Enthalpy : 0.1 kJ/kg

۶ Hygrometry probe / polycarbonate temperature

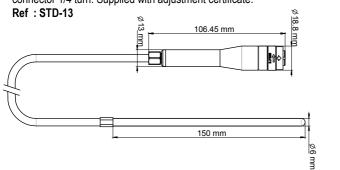
Interchangeable hygrometry and temperature probe in polycarbonate with stainless steel filter. Remote probe 150 mm length or 300 mm, 13 mm diameter. White silicone cable 2 m length with watertight connector 1/4 turn. In option : protective tips, filters. Supplied with adjustment certificate. Ref : SHDP-150 (probe 150 mm length)



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TEMPERATURE PROBES

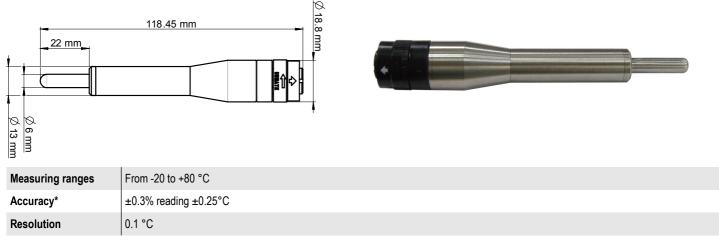
Interchangeable temperature probe Pt100 1/3 DIN of general use, contact tip 6 mm diameter, 150 mm length, IP65. Grey silicone cable 2 m length with watertigth connector 1/4 turn. Supplied with adjustment certificate.





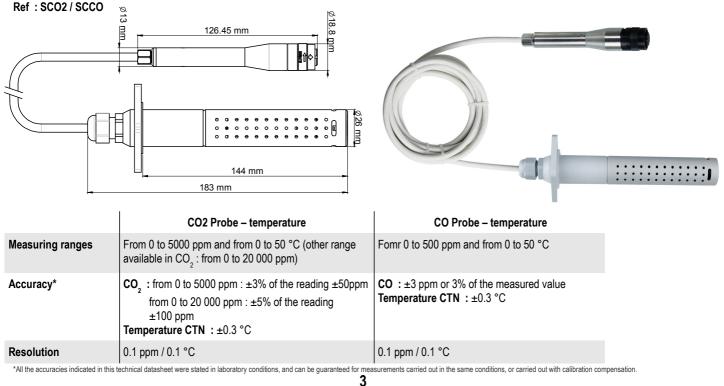
Measuring ranges	From -50 to +180 °C
Accuracy*	±0.3% reading ±0.25°C
Resolution	0.1 °C

Interchangeable temperature probe of general use Pt100, 1/3 DIN type STS-13, contact tip 6 mm diameter, 22 mm length. Range from -20 to +80 °C. Direct output on connector for C310 sensors, CPE310 (with adapter) and large display CA310. Supplied with adjustment certificate. **Ref : STS-13**



CO_PROBES / TEMPERATURE AND CO/TEMPERATURE

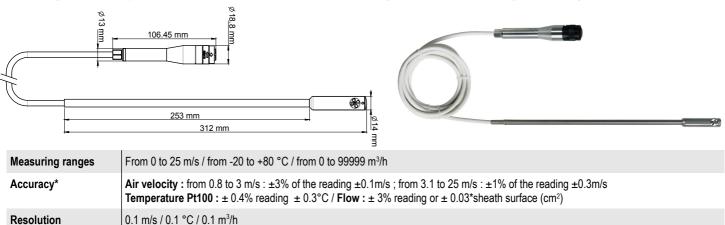
Interchangeable CO₂ and temperature probe or CO and temperature in ABS V0. Remote probe 160 mm length, 26 mm diameter. White PVC cable 2 m length with watertight connector 1/4 turn. Supplied with mounting flange and adjustment certificate.



AIR VELOCITY AND TEMPERATURE PROBES

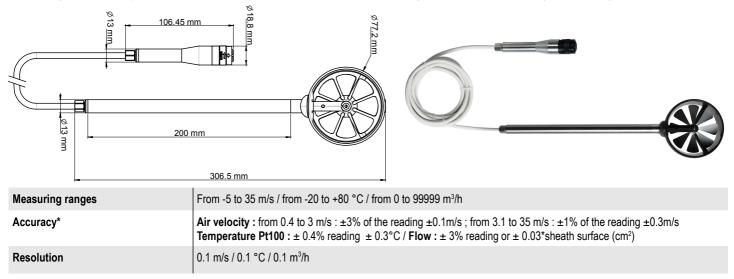
> SVH-14 : Ø14 mm vane probe

Interchangeable air velocity and temperature remote with Ø 14 mm vane, 300 mm length, white PVC cable 2 m length with watertight connector 1/4 turn.



> SVH-70 : Ø70 mm vane probe

Interchangeable air velocity and temperature remote probe with Ø 70 mm vane, 200 mm length, white PVC cable 2 m length with watertight connector 1/4 turn.



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> SVH-100 : probe Ø100 mm wind vane

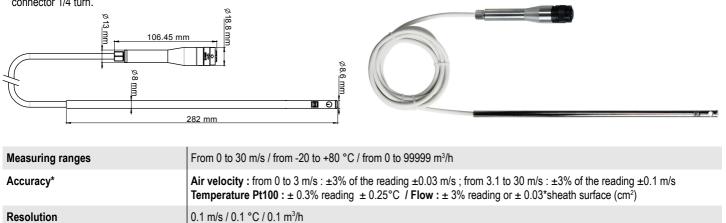
Interchangeable air velocity and temperature remote probe with Ø 100 mm vane, 200 mm length, white PVC cable 2 m length with watertight connector 1/4 turn.

106.45 mm 106.45 mm 200 mm	50 60 60 60 60 60 60 60 60 60 6
Measuring ranges	From -5 to 35 m/s / from -20 to +80 °C / from 0 to 99999 m ³ /h
Accuracy*	Air velocity : from 0.3 to 3 m/s : \pm 3% of the reading \pm 0.1m/s ; from 3.1 to 35 m/s : \pm 1% of the reading \pm 0.3m/s Temperature Pt100 : \pm 0.4% reading \pm 0.3°C / Flow : \pm 3% reading or \pm 0.03*sheath surface (cm ²)
Resolution	From -5 to -3 m/s : 0.1 m/s ; from -3 to 3 m/s : 0.01 m/s ; from 3 to 35 m/s : 0.1 m/s $0.1\ \text{eV}$ / 0.1 m^3/h

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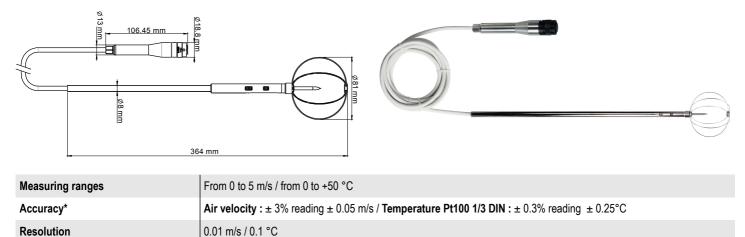
> SVS : hot-wire probe

Interchangeable air velocity and temperature remote hot-wire probe in stainless steel 300 mm length, 8 mm diameter, white PVC cable 2 m length with watertight connector 1/4 turn.



> SVO : omnidirectional probe

Interchangeable air velocity and temperature remote omnidirectional hot-wire probe in stainless steel 300 mm length, 8mm diameter, white PVC cable 2 m length with watertight connector 1/4 turn. Supplied with carrying case and tripod.



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EXTENSIONS FOR PROBES



R310-5 : Extension of 5 m for interchangeable probes class 310



R310-10 : Extension of 10 m for interchangeable probes class 310

> Pressure boards SPI-2

Interchangeable pressure board with electrovalve and terminal for K thermocouple probe for C310 and CA310 sensors. Supplied with pressure fitting and silicone tubes.

Ref : SPI2-100 SPI2-500 SPI2-1000 SPI2-10000

Pressure

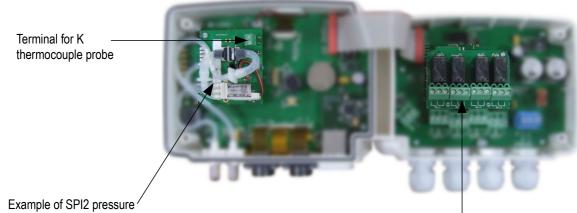
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Measuring ranges	SPI2-100 : from -100 to +100 Pa SPI2-500 : from -500 to +500 Pa SPI2-1000 : from -1000 to +1000 Pa SPI2-10000 : from -10000 to +10000 Pa		
Accuracy*	SPI2-100 : $\pm 0.2\%$ of the reading ± 0.8 Pa SPI2-500 : $\pm 0.2\%$ of the reading ± 2 Pa SPI2-1000 : $\pm 0.2\%$ of the reading ± 2 Pa SPI2-10000 : $\pm 0.2\%$ of the reading ± 10 Pa		
Admissible removal	SPI2-100 / SPI2-500 / SPI2-1000 : 21 000 Pa SPI2-10000 : 69 000 Pa		
Units and resolution	1 Pa / 0.1 mmH ₂ O / 0.01 mbar / 0.01 inWG / 0.01 mmHG / 0.1daPa / 0.001 kPa / 0.01 hPa		

Temperature K thermocouple

Measuring ranges	From -200 to +1300 °C (according to the probe)
Accuracy*	± 1.1 °C or $\pm 0.4\%$ of the read value ¹
Units and resolution	0.1 °C / 0.1 °F

These pressure boards SPI2 for C310 and CA310 sensors have a temperature compensation of the gain from 0 to 50°C and an autocalibration process which guarantee over time an excellent stability and a perfect reliability of the measurement as much in low as high range. Autocalibration principle : the microchip of the sensor manages an electrovalve which compensates possible remotes of the sensitive element over time. The compensation is insured by a permanent adjustment of the zero. The differential pressure measurement is then independant from the environmental conditions of the sensor.

Electrovalve lifetime : 100 millions of cycles Advantage : no zero remote Periodicity of the autocalibration : detchable or from 1 to 60 min.



board on C310 sensor

Relay board C4R on C310 sensor

Interchangeable atmospheric pressure board for C310 and CA310 sensors, range 800-1100 hPa. Supplied with pressure fitting and silicone tube.

Ref : SPI2-ATMO

Measuring ranges	From 800 to 1100 hPa
Accuracy*	±2 hPa
Units and resolution	0.1mbar / 0.1mmHG / 0.1hPa

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Current / Voltage boards

Interchangeable board, 3 current / voltage analogic input: 0-20 mA / 4-20 mA et 0-2,5 V / 0-5 V / 0-10 V, with terminal, CA310 sensor. Ref : MVA

Measuring ranges	0 – 20 mA 4 – 20 mA 0 – 2.5 V 0 – 5 V 0 – 10 V
Accuracy*	$\begin{array}{l} 0-20 \text{ mA}:\pm 0.01 \text{ mA} \\ 4-20 \text{ mA}:\pm 0.01 \text{ mA} \\ 0-2.5 \text{ V}:\pm 0.002 \text{ V} \\ 0-5 \text{ V}:\pm 0.005 \text{ V} \\ 0-10 \text{ V}:\pm 0.010 \text{ V} \end{array}$



Example of MVA current / ~ voltage board on CA310 sensor

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Once returned to KIMO, required waste collection will be assured in the respect of the environment in accordance with European guidelines relating to WEEE.

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