



DATA SHEET










# Probes for TrackLog



## INTERCHANGEABLE PROBES

All the probes are interchangeable with an automatic recognition and the storage of the adjustment parameters\*.

### Pt100 temperature probes



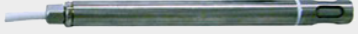
Reference	Accuracy**	Measuring range of the sensing element	Description
 <p>KIRGA-50 / KIRGA-150</p>	±0.4% of reading ±0.3 °C	From -40 to +120 °C	IP65 immersion probe Stainless steel contact tip Contact tip size: Ø 6 x 50 mm (KIRGA-50) Ø 6 x 150 mm (KIRGA-150) Output on PVC cable of 2 m length
 <p>KIFC-50</p>	±0.4 % of reading ±0.3 °C	From -40 to +80 °C	Immersion probe KIFC-50 Stainless steel contact tip Contact tip size: Ø 6 x 50 mm Output on PVC flat cable of 2 m length, 3 wires. KICA-320 adaptor is required
 <p>KIRAM-150</p>	±0.4% of reading ±0.3 °C	From -40 to +120 °C	Ambient probe 150 mm Stainless steel perforated contact tip Contact tip size: Ø 6 x 150 mm Output on PVC cable of 2 m length
 <p>KIRPA-150</p>	±0.4% of reading ±0.3 °C	From -50 to +250 °C	IP65 penetration probe Stainless steel contact tip Contact tip size: Ø 6 x 150 mm Output on PFA cable of 2 m length
 <p>KIPI3-150-E</p>	±0.4% of reading ±0.3 °C	From -50 to +250 °C	IP68 penetration probe with handle Stainless steel contact tip Contact tip size: Ø 3 x 150 mm, Ø 10 mm stainless steel handle Output on PFA cable of 1 m length
 <p>KITI3-100-E</p>	±0.4% of reading ±0.3 °C	From -50 to +250 °C	IP68 penetration probe with T-handle Stainless steel contact tip Contact tip size: Ø 3 x 100 mm, T-handle Output on PFA cable of 1 m length
 <p>KITBI3-100-E</p>	±0.4% of reading ±0.3 °C	From -50 to +250 °C	IP68 penetration probe with corkscrew handle Stainless steel contact tip Contact tip size: Ø 8 x 100 mm, T-handle Output on PFA cable of 1 m length
 <p>KIRV-320</p>	±0.4% of reading ±0.3 °C	From -20 to +90 °C	Velcro® probe Output on PVC cable of 2 m length Contact tip size: Ø 4.5 x 150 mm Velcro® length: 350 mm
 <p>KICA-320</p>	Smart adapter for Pt100 probe 3-wire, containing a connection terminal and a mini-DIN connector		

\*Except KIFC-50 probe

\*\*All accuracies indicated in this document were stated in laboratory conditions and can be guaranteed for measurement carried out in the same conditions or with calibration compensation.

## Hygrometry and temperature probes

For hygrometry parameter, these probes have a capacitive sensing element. For temperature parameter, KITHA-2 and KITHP-130-2 have a NTC sensing element and KITHI-150 a Pt100 sensing element. These probes come with an 8-pin mini-DIN connector and are interchangeable.

Reference	Accuracy*	Measuring range	Description
 <p>KITHA-2</p>	<p>Hygrometry (capacitive)**:                      Repeatability, linearity: <math>\pm 1.5\%</math> RH                      (from 10 to 80% RH and from 10 to 50 °C***)                      Hysteresis: 0.8% RH at 25 °C                      Time drift: &lt; 0.5% RH per year in normal conditions                      of use (from 5 to 60 °C and from 20 to 80% RH,                      apart from indoor pollutants)</p> <p>Temperature (NTC): <math>\pm 0.2</math> °C</p>	<p>From 0 to 100% RH                      From -20 to +70 °C</p>	<p>Interchangeable hygrometry and                      ambient temperature probe</p> <p>Probe body in ABS, 94.5 mm length,                      capacitive sensing element, stainless                      steel filter and mini-DIN connector</p>
 <p>KITHP-130-2</p>	<p>Hygrometry (capacitive)**:                      Repeatability, linearity: <math>\pm 1.5\%</math> RH                      (from 10 to 80% RH and from 10 to 50 °C***)                      Hysteresis: 0.8% RH at 25 °C                      Time drift: &lt; 0.5% RH per year in normal conditions                      of use (from 5 to 60 °C and from 20 to 80% RH,                      apart from indoor pollutants)</p> <p>Temperature (NTC): <math>\pm 0.2</math> °C</p>	<p>From 0 to 100 %RH                      From -20 to +70 °C</p>	<p>Remote interchangeable hygrometry                      and temperature probe</p> <p>Probe body in ABS, 130 mm length,                      NTC sensing element, stainless steel                      filter, PVC cable of 2 m length with                      mini-DIN connector</p>
 <p>KITHI-150</p>	<p>Hygrometry (capacitive)**:                      Repeatability, linearity: <math>\pm 1.5\%</math> RH (from 15 to 25 °C                      and from 5 to 95% RH)                      Hysteresis: &lt; 2% RH at 25 °C                      Temperature dependence:  <math>\pm 0.04 \times (T-20)\%</math>RH (if <math>T &gt; 25</math> °C or <math>T &lt; 15</math> °C)                      Temperature (Pt100): <math>\pm 0.3\%</math> of reading <math>\pm 0.25</math> °C</p>	<p>From 0 to 100 %RH                      From -40 to +180 °C</p>	<p>Remote interchangeable hygrometry                      and temperature probe</p> <p>Probe body in stainless steel, 150 mm                      length, capacitive sensing element,                      stainless steel filter, silicone cable of                      2 m with mini-DIN connector</p>


## Caps for humidity probes

References	Features	Max. particle	Max. air velocity	Max. temperature	Relative humidity
EPP2	Cap: ABS Filter: mesh, 316 L stainless steel 30 mm length	25 $\mu$	25 m/s	80 °C	95% RH
EPI25	Cap: 316 L stainless steel Filter: mesh, 316 L stainless steel 30 mm length	25 $\mu$	25 m/s	180 °C	95% RH
EPI100	Cap: 316 L stainless steel Filter: mesh, 316 L stainless steel 30 mm length	100 $\mu$	20 m/s	180 °C	100% RH
EPFI	Cap: 316 L stainless steel Filter: sintered, 316 L stainless steel 30 mm length	25 $\mu$	25 m/s	180 °C	90% RH
EPFT	Cap: PTFE Filter: sintered, 316 L stainless steel 30 mm length	10 $\mu$	25 m/s	180 °C	90% RH
EPH202	Cap: MnO <sub>2</sub> Filter: sintered, PTFE 33 mm length	50 $\mu$	25 m/s	180 °C	95% RH
CPH	Cap: Silicone 30 mm length	Tight	-	50 °C	100% RH

\*All accuracies indicated in this document were stated in laboratory conditions and can be guaranteed for measurement carried out in the same conditions or with calibration compensation.

\*\* Accuracy in RH depends on temperature: typical  $\pm 2\%$  RH below 10 °C and above 50 °C.

\*\*\* For continuous use at values above 80% RH, please consult us.

 Probes compatible with Sauer mann and Kimo devices.