



DATA SHEET



Measurement probes and cables for class 220 Kistock data loggers





NTC temperature probes

The temperature probes have a NTC sensing element. Each of these probes come with an 8-pin mini-DIN connector.

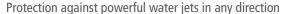
| Reference | Description | Measuring range and accuracy* |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| KSI-50 / KSI-150 | IP65 immersion probe Stainless steel contact tip. Contact tip size: Ø6 x 50 mm (ref. KSI-50) or Ø6 x 150 mm (ref. KSI-150) Output on PVC cable of 2 m length | NTC sensing element: From -40 to +120 °C ± 0.4 °C from -20 to +70 °C ± 0.8 °C beyond |
| KSA-150 | Ambient use probe Stainless steel contact tip. Contact tip size: Ø6 x 150 mm with perforated contact tip Output on PVC cable of 2 m length | NTC sensing element: From -40 to +120 °C ± 0.4 °C from -20 to +70 °C ± 0.8 °C beyond |
| KSF-2 | Wire probe Ø3 mm with output on PVC cable of 2 m length | NTC sensing element: From -20 to +100 °C ± 0.4 °C from -20 to +70 °C ± 0.8 °C beyond |
| KSPP-150 | IP68 penetration probe With stainless steel contact tip Contact tip size: Ø3 x 150 mm with stainless steel handle Ø10 mm Output on PVC cable of 1 m length | NTC sensing element: From -40 to +120°C ±0.4°C from -20 to +70°C ±0.8°C beyond |
| KSP-150 | IP65 penetration probe With stainless steel contact tip Contact tip size: Ø4.5 x 150 mm Output on PVC cable of 1 m length | NTC sensing element: From -40 to +120 °C ± 0.4 °C from -20 to +70 °C ± 0.8 °C beyond |
| KCV-220 | Probe with velcro Output on PVC cable of 2 m length Contact tip size: Ø4.5 x 150 mm Contact length: 350 mm | NTC sensing element: From -20 to $+90$ °C ± 0.4 °C from -20 to $+70$ °C ± 0.8 °C beyond |

Temperature and humidity probe

The temperature and hygrometry probes have an interchangeable NTC for temperature and capacitive for hygrometry sensing element. Each of these probes come with an 8-pin mini-DIN connector.

| Reference | Description | Measuring range and accuracy* | |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| КТНА | Interchangeable hygrometry and ambient temperature probe Probe body in ABS, 65 mm length with stainless steel filter and mini-DIN connector | Hygrometry** (capacitive): From 0 to 100%RH Accuracy (Repeatability, linearity, hysteresis): ±2%RH (from 15°C to 25°C and from 5 to 95%RH) Temperature (NTC): From -20 to +70°C ±0.4°C from 0 to 50°C ±0.8°C below 0°C or above 50°C | |
| KTHD | Remote interchangeable hygrometry and temperature probe Probe body in ABS, 130 mm length with stainless steel filter, PVC cable of 2 m length with mini-DIN connector | | |







Watertight to continuous immersion

^{*}All accuracies indicated in this document were stated in laboratory conditions and can be guaranteed for measurements carried out in the same conditions, or carried out with compensation.
** Factory calibration uncertainty: ±0.88%RH. Temperature dependence: ±0.04 x (T-20) %RH (if T<15°C or T>25°C)

Current and voltage input cables and pulse input cable

The pulse, voltage and current cables have a PVC cable of 2 m and an 8-pin mini-DIN connector.

| Reference | Description | Measuring range and accuracy* |
|-----------|----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| KCTD-10-B | Voltage input cable Measuring range: 0 – 5 V or 0 – 10 V | From 0 to 5/10 V $\pm 0.2\%$ of the measurement $\pm 1 \text{mV}$ |
| KCCD-02-B | Current input cable Measuring range: 0 – 20 mA or 4 – 20 mA | From 0/4 to 20 mA $\pm 0.2\%$ of the measurement $\pm 1 \mu A$ |
| KCTD-I-B | Pulse input cable | Maximal voltage: 5 V Type of input: TTL frequency counting Maximal frequency: 10 kHz Maximum number of recordable pulses: 20 000 |

Relative pressure probe (fluid pressure)

The fluid pressure probe for class 220 data loggers is equipped with a pressure sensor for liquid and gas, a PVC cable of 2 m and an 8-pin mini-DIN connector.

| Reference | Description | Measuring range and accuracy* |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| KSPE-2 | Relative pressure probe, range from 0 to 20 bar for liquids and gases (corrosive). Stainless steel body probe, length 93 mm with 1/8" gas connector. Operating temperature: Ambient temperature: from -20 to 80 °C Fluid temperature: from -40 to 120 °C Tolerated overpressure: 40 bars | From 0 to 20 bar ±0.2 bar |

Ammeter clamps

Ammeter clamps have a PVC cable of 2 m and an 8-pin mini-DIN connector.

| Reference | Description | Measuring range and accuracy* |
|------------------------------------------------|------------------------------------------------------|------------------------------------------------------------------------------------------|
| KIPID-50-BRF KIPID-100-BRF KIPID-200-BRF | KIPID-50-BRF ammeter clamp Range from 0 to 50 A | From 0 to 50 A ±1% of reading ±0.1A Frequency range: from 40 Hz to 5000 Hz |
| | KIPID-100-BRF ammeter clamp Range from 0 to 100 A | From 1 to 100 A $\pm 1\%$ of reading $\pm 0.1A$ Frequency range: from 40 Hz to 5000 Hz |
| | KIPID-200-BRF ammeter clamp Range from 0 to 200 A | From 1 to 200 A $\pm 1\%$ of reading $\pm 0.2A$ Frequency range: from 40 Hz to 5000 Hz |
| KIPID-600-BRF | KIPID-600-BRF ammeter clamp Range from 0 to 600 A | From 1 to 600 A $\pm 2.5\%$ of reading $\pm 0.6A$ Frequency range: from 40 Hz to 5000 Hz |

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