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DATA SHEET

Measurement probes and cables for class 220 Kistock dataloggers

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	**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	**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	**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*
KTHA		**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	

IP65 Protection against powerful water jets in any direction

IP68 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 ±0.2% of the measurement ±1mV
KCCD-02-B 	Current input cable Measuring range: 0 – 20 mA or 4 – 20 mA	From 0/4 to 20 mA ±0.2% of the measurement ±1µA
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 (water pressure)

The water pressure probe for class 220 dataloggers 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 and 1/4'' gas adaptor. 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_{AC} ±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_{AC} ±1% of reading ±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_{AC} ±1% of reading ±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_{AC} ±2.5% of reading ±0.6A Frequency range: from 40 Hz to 5000 Hz

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