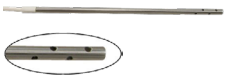
KIMO INSTRUMENTS

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	**IP65 immersion probe** Stainless steel contact tip. Contact tip size: Ø6 x 50 mm / $^{15}/_{64}$" diam. x 1 $^{62}/_{64}$" (ref. KSI-50) or Ø6 x 150 mm / $^{15}/_{64}$" diam. x 5 $^{58}/_{64}$" (ref. KSI-150) Output on PVC cable of 2 m / 6' 6" length	NTC sensing element: From -40 to +120 °C / -40 to +248 °F ±0.4 °C from -20 to +70 °C / ±0.8 °F from -4 to 158 °F ±0.8 °C beyond / ±1.5 °F beyond
KSA-150		**Ambient use probe** Stainless steel contact tip. Contact tip size: Ø6 x 150 mm / $^{15}/_{64}$" diam. x 5 $^{58}/_{64}$" with perforated contact tip Output on PVC cable of 2 m / 6' 6" length	NTC sensing element: From -40 to +120 °C / -40 to +248 °F ±0.4 °C from -20 to +70 °C / ±0.8 °F from -4 to 158 °F ±0.8 °C beyond / ±1.5 °F beyond
KSF-2		**Wire probe** Ø3 mm / $^{8}/_{64}$" with output on PVC cable of 2 m / 6' 6"length	NTC sensing element: From -20 to +100 °C / - 4 to +212 °F ±0.4 °C from -20 to +70 °C / ±0.8 °F from -4 to +158 °F ±0.8 °C beyond / ±1.5 °F beyond
KSPP-150	IP68	**IP68 penetration probe** With stainless steel contact tip Contact tip size: Ø3 x 150 mm / $^{8}/_{64}$" x 1 $^{62}/_{64}$" with stainless steel handle Ø10 mm / $^{25}/_{64}$" Output on PVC cable of 1 m / 3' 3" length	NTC sensing element: From -40 to +120 °C / -40 to +248 °F ±0.4 °C from -20 to +70 °C / ±0.8 °F from -4 to 158 °F ±0.8 °C beyond / ±1.5 °F beyond
KSP-150	IP65	**IP65 penetration probe** With stainless steel contact tip Contact tip size: Ø4.5 x 150 mm / $^{11}/_{64}$" x 1 $^{62}/_{64}$" Output on PVC cable of 1 m / 3' 3" length	NTC sensing element: From -40 to +120 °C / -40 to +248 °F ±0.4 °C from -20 to +70 °C / ±0.8 °F from -4 to 158 °F ±0.8 °C beyond / ±1.5 °F beyond
KCV-220		**Probe with velcro** Output on PVC cable of 2 m / 6' 6" length Contact tip size: Ø4.5 x 150 mm / $^{11}/_{64}$" diam. x 1 $^{62}/_{64}$" Contact length: 350 mm / 13 $^{50}/_{64}$"	NTC sensing element: From -20 to +90 °C / -4 to +194 °F ±0.4 °C from -20 to +70 °C / ±0.8 °F from -4 to 158 °F ±0.8 °C beyond / ±1.5 °F 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 / 2 $^{36}/_{64}$" 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 / 59 °F to 77 °F and from 5 to 95 %RH) **Temperature (NTC):** From -20 to +70 °C / -4 to 158 °F ±0.4 °C from 0 to 50 °C / ±0.8 °F from 32 to 122 °F ±0.8 °C below 0 °C or above 50 °C / ±1.5 °F below 32 °F or above 122 °F
KTHD		**Remote interchangeable hygrometry and temperature probe** Probe body in ABS, 130 mm / 5 $^{8}/_{64}$" length with stainless steel filter, PVC cable of 2 m / 6' 6" 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) / ±0.04 x [((T °F -32) x 5/9) -20] %RH (if T≤59 °F or T≥77 °F).

Current and voltage input cables and pulse input cable

The pulse, voltage and current cables have a PVC cable of 2 m / 6' 6" 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 (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 / 6' 6" and an 8-pin mini-DIN connector.

Reference	Description	Measuring range and accuracy*
KSPE-2	**Relative pressure probe,** range from 0 to 20 bar / 0 to 290 psi for liquids and gases (corrosive). Stainless steel body probe, length 93 mm / 3 $^{21}/_{32}$" with 1/8" gas connector. Operating temperature: Ambient temperature: from -20 to 80 °C / -4 to 176 °F Fluid temperature: from -40 to 120 °C / -40 to 248 °F Tolerated overpressure: 40 bars / 580.15 psi	From 0 to 20 bar ±0.2 bar 0 to 290 psi ±2.9 psi

Ammeter clamps

Ammeter clamps have a PVC cable of 2 m / 6' 6" 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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