KIMO INSTRUMENTS

Technical Data Sheet

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

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 ranges and accuracies*
 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 ranges and accuracies*
 KTHA	**Interchangeable hygrometry and ambient temperature probe** Probe body in ABS, 65 mm length with stainless steel filter and mini-DIN connector	<u>Hygrometry** (capacitive):</u> From 0 to 100%RH **Accuracy (Repeatability, linearity, hysteresis)**: ±2%RH (from 15°C to 25°C and from 5 to 95%RH) <u>Temperature (NTC):</u> 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 Protection against long term 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 ranges and accuracies*
 *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 ranges and accuracies*
 *KSPE / KSPE-2*	**Relative pressure probe**, range from 0 to 10 bar (KSPE) 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: 20 bars	From 0 to 10 bar ±0.2 bar
	Relative pressure probe, range from 0 to 20 bar (KSPE-2) 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 ranges and accuracies*
 *KPID-50-BRF* *KPID-100-BRF* *KPID-200-BRF*	KPID-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
	KPID-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
	KPID-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
 *KPID-600-BRF*	KPID-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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