KIMO INSTRUMENTS

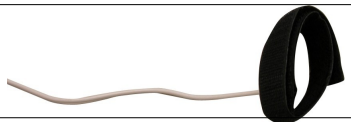
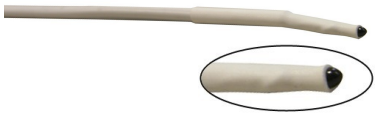
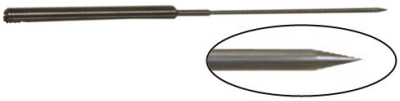
Technical Data Sheet

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

Measuring probes and cables for classes 110, 210 and 310 Kistocks wireless dataloggers

NTC TEMPERATURE PROBES FOR CLASSES 110 and 210 WIRELESS KISTOCKS

Temperature probes of the 110 and 210 range are equipped with a NTC sensing element. Each probe comes with a **Mini-Din 8 points** connector. **Accuracy* :** ±0.3°C (-25°C<T<+70°C), ±0.5°C outside.

KCG-50-BRF *KCG-150-BRF*		**IP65 general use probe** Stainless steel contact tip. Ø 4.5 x 50 mm (ref. KCG 50) or Ø 4.5 x 150 mm (ref. KCG 150) Output on PVC HT cable, length 2 m. **Measuring range :** from -40 to +120 °C
KCV-200-BRF		**Velcro probe** Output on PVC HT cable, length 2 m. **Measuring range :** from -20 to +90°C
KCF-2-BRF		**Wire probe** Diameter 3 mm with output on PVC HT cable, length 2 m **Measuring range :** from -20 to +100°C
KPI-150-BRF		**IP68 penetration probe** With stainless steel contact tip. Ø 3 x 150 mm with stainless steel handle, diameter 10 mm. Output on PVC cable, length 1 m. **Measuring range :** from -40 to +120 °C
KTBI-100-BRF		**IP68 penetration probe with cork screw handle** With twisted stainless steel contact tip. Contact tip dimensions Ø 8 x 100 mm with stainless steel T handle. Output on PVC cable, length 1 m. **Measuring range :** from -40 to +120 °C

TEMPERATURE AND HUMIDITY PROBE FOR CLASS 210 WIRELESS KISTOCKS

Thermo-hygrometry probes for class 210 have 2 sensing elements :

- one capacitive element to measure humidity
- One Pt100 1/3 DIN element *(as per IEC 751 standard) to measure temperature*

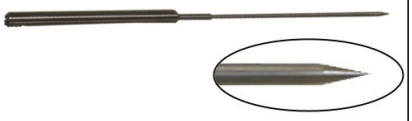
Each probe comes with a 8-pin mini-DIN connector.

KTHP-130-BRF		**ABS probe** Avec embout de protection ajouré et filtre 25 µm. Probe length : 130 mm Output on Silicone cable, diameter 4.8 mm and length 2 m (further lengths on request). **Measuring range :** from -20 to +70 °C and from 5 to 95 %RH • **Accuracy* for humidity (repeatability, linearity, hysteresis) :** ±1.5 %RH (from 15 to 25 °C) with : **- Factory calibration uncertainty :** ±0.88 %RH **- Temperature dependence :** ±0.04 x (T-20) %RH (if T<15 °C or T>25 °C) • **Accuracy* of temperature :** ±0.3% of the reading value ±0.25°C • **Response time (for V_{air} = 2 m/s) :** **- Humidity :** $t_{0,63}$ = 25 s (from 10 to 80 %HR) **- Temperature :** $t_{0,63}$ = 9 s (with a probe without filter)

* 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.

Pt100 TEMPERATURE PROBES FOR KISTOCKS CLASS 310

Temperature probes of the class 310 are equipped with a Pt100 Class A sensitive element (as per IEC 751 standard).
Each probe comes with a **8 points Mini-Din connector**.
Response time : $t_{0.63}$ = 32 s (V_{air} = 2 m/s). **Accuracy* :** ±0.4% of reading ±0.3°C

KRGA-50 *KRGA-150*		**IP65 general use probe** With output one Teflon cable, length 2 m. Stainless steel contact tip, length 50 mm *(KRGA 50)* or 150 mm *(KRGA 150)* and diameter 6 mm. **Measuring range :** from -50 to +250 °C.
KRVB-200		**Velcro probe** Output on Teflon cable, length 2m. **Measuring range :** from -20 to +90°C
KPI3-150E		**IP68 penetration probe** With stainless steel contact tip. Contact tip dimensions : Ø 3 x 150 mm with stainless steel handle of diameter 10 mm. Output onTeflon cable, length 1 m. **Measuring range :** from -50 to +250 °C
KTBI3-100E		**IP68 penetration probe with T handle** With twisted stainless steel contact tip. Contact tip dimensions Ø 8 x 100 mm with stainless steel T handle. Output on Teflon, length 1 m. **Measuring range :** from -50 to +250 °C

CURRENT AND VOLTAGE INPUT CABLES AND PULSE INPUT CABLE FOR KISTOCKS CLASSES 110-210-310 (with mini-Din connector)

KCTD-10B		**Measuring range :** from 0 to 10 V - **Accuracy* :** ±0.2% of measuring ±1mV
KCCD-02B		**Measuring range :** from 0 to 4/20 mA - **Accuracy* :** ±0.2% of measuring ±1µA
KCTD-IB		**Maximum voltage :** 5 V – **Output type :** TTL frequency counting

AMMETER CLAMPS FOR CLASSES 110-210-310 (with mini-Din connector)

KPID-50-BRF		**Measuring range :** from 0 to 50 A_{AC} – **Accuracy* :** ±1% of reading ±0.1A **Frequency range :** from 40 Hz to 5000 Hz
KPID-100-BRF		**Measuring range :** from 1 to 100 A_{AC} – **Accuracy* :** ±1% of reading ±0.1A **Frequency range :** from 40 Hz to 5000 Hz
KPID-200-BRF		**Measuring range :** from 1 to 200 A_{AC} – **Accuracy* :** ±1% of reading ±0.2A **Frequency range :** from 40 Hz to 5000 Hz
KPID-600-BRF		**Measuring range :** from 1 to 600 A_{AC} – **Accuracy* :** ±2.5% of reading ±0.6A **Frequency range :** from 40 Hz to 5000 Hz

IP65 Protection against powerful water jets in any direction

IP68 Protection against long term immersion

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LIGHT PROBE FOR KISTOCK KTU210-RF

KSL-RF		**Measuring range :** From 0 to 9999 lux **Accuracy* :** From 0 to 200 lux : ±10 lux From 201 to 9999 lux : ±3 % of reading ±4 lux **Directionnal sensitivity (f2)[1] :** <6 % **Linearity (f3)[1] :** ≤3 % **Linearity :** < 3% **Cable :** length 2 m with mini-DIN connector.

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[1] The f2 and f3 coefficient are defined according to the French NF C 42-710 standard.

Order of magnitude of Lux according to applications

Environment	Lux	Environment	Lux
Outside with open air	500 to 25000	Factory : electronic assembling	1500 to 3000
Outside with direct sunlight	50000 to 100000	Hotel reception hall	200 to 500
Full moon night	1	Shop	750 to 1500
Overnight lit street	20 to 70	Hospital operating room	750 to 1500
Apartment well lit	200 to 400	Classroom	200 to 750

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