

TECHNICAL DATASHEET


Measuring probes and cables

for Class 100/200 KISTOCK dataloggers

Thermo-hygrometry probe

Thermo-hygrometry probe for Class 200 has a CMOS sensing element (Complementary metal-oxide semiconductor) which includes: a capacitive element to measure humidity and a varistor to measure temperature.

This probe comes with a 8-pin Mini-DIN connector.

Part number		Technical features
KTHP 130		Probe made of ABS/PC – output on PVC HT cable (High Temperature), length 2m. <u>Measuring range:</u> -20 to +80°C and 5 to 95%RH <u>Accuracy:</u> <ul style="list-style-type: none"> Humidity : ± 2.95 %RH between 18°C and 28°C (GAL*) Temperature : $\pm 1\%$ of value displayed, $\pm 0.4^\circ\text{C}$ ($+5^\circ\text{C} < T < +80^\circ\text{C}$) $\pm 2\%$ of value displayed, $\pm 0.6^\circ\text{C}$ ($-20^\circ\text{C} < T < +5^\circ\text{C}$) <u>Response time:</u> (for $V_{\text{air}} = 2\text{m/s}$) <ul style="list-style-type: none"> Humidity : $t_{0.63} = 50\text{s}$ Temperature : $t_{0.63} = 25\text{s}$

KRH-5	Extension made of PVC HT, length 5m
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* Guaranteed Accuracy Limits (GAL)

As per NFX 15-113 standard and as per the Charter « 2000-2001 HYGROMETERS »

(GAL) = ± 2.95 %RH between 18 and 28°C (normal measurement range)

Measuring range 5 to 95%RH,

Short-term drift: 1%RH / year

$$\text{GAL} = E_t + E_H + k (u_{\text{cal}}^2 + u_r^2 + u_d^2 + u_s^2)^{1/2}$$

E_H : linearity and hysteresis = $\pm 1.33\%$ RH

E_t : temperature coefficient error = $\pm 0.42\%$ RH with

u_{cal} : uncertainty of calibration = $\pm 0.55\%$ RH

u_r : uncertainty of resolution = $\pm 0.003\%$ RH




u_d : manufacturing dispersion = $\pm 0.2\%$ RH

u_s : comparison repeatability = 0.13%RH

k : coverage factor value = 2

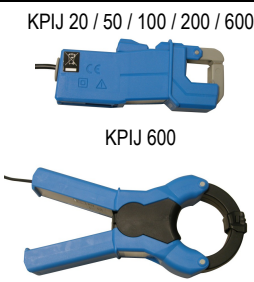
Current and voltage input cables

Each model comes with a Jack connector (stereo 2.5).

Part number		Technical features
KCTJ 25		PVC cable, length 2m. <u>Measuring range:</u> 0 to 2.5V - <u>Accuracy:</u> $\pm 0.002\text{V}$
KCTJ 10		<u>Measuring range:</u> 0 to 4/20 mA - <u>Accuracy:</u> ± 0.05 mA
KCCJ 02		<u>Measuring range:</u> 0 to 10 V - <u>Accuracy:</u> $\pm 0.02\text{V}$

Ammeter clamps


















Each model comes with a Jack connector (stereo 2.5).

Part number		Technical features
KPIJ 20	 <p style="text-align: center;">KPIJ 20 / 50 / 100 / 200 / 600</p> <p style="text-align: center;">KPIJ 600</p>	PVC cable, length 2m.
KPIJ 50		<u>Measuring range:</u> 0 to 20A <u>Response time:</u> $\pm 1\%$ of the value displayed $\pm 0.1\text{A}$
KPIJ 100		0 to 50A $\pm 1\%$ of the value displayed $\pm 0.1\text{A}$
KPIJ 200		0 to 100A $\pm 1\%$ of the value displayed $\pm 0.2\text{A}$
KPIJ 600		0 to 200A $\pm 1\%$ of the value displayed $\pm 0.3\text{A}$
KPIJ 600		0 to 600A $\pm 2,5\%$ of the value displayed $\pm 0.6\text{A}$

NTC temperature probes

Class 100/200 temperature probes have a NTC sensing element. Each probe comes with a Jack connector (stereo 2.5).

Accuracy: $\pm 0.3^{\circ}\text{C}$ ($-25^{\circ}\text{C} < T < +70^{\circ}\text{C}$), $\pm 0.5^{\circ}\text{C}$ beyond

Part number		Technical features
KCG 50		General use probe Stainless steel probe, $\varnothing 4.5 \times 50 \text{ mm}$ (Ref. KCG 50), $\varnothing 4.5 \times 150 \text{ mm}$ (Ref. KCG 150). Output on PVC HT cable, length 2m. <u>Measuring range:</u> -40 to $+120^{\circ}\text{C}$
KCG 150		
KCA 150	 	Ambient probe Stainless steel probe $\varnothing 4.5 \times 150 \text{ mm}$ with perforated tip. Output on PVC HT cable, length 2m. <u>Measuring range:</u> -40 to $+120^{\circ}\text{C}$
KCV 200		Velcro probe Output on PVC HT cable, length 2m. <u>Measuring range:</u> -20 to $+90^{\circ}\text{C}$
KCF 2	 	Wire probe Diameter 3mm with output on PVC HT cable, length 2m. <u>Measuring range:</u> -20 to $+100^{\circ}\text{C}$
KCG 150 P	 	General use probe with handle Stainless steel probe with pointer tip. Plunger $\varnothing 4.5 \times 150 \text{ mm}$. Output on PVC HT cable, length 2m. <u>Measuring range:</u> -40 to $+120^{\circ}\text{C}$
KCA 150 P	 	Ambient probe with handle Stainless steel probe with perforated tip. Plunger $\varnothing 4.5 \times 150 \text{ mm}$. Output on PVC HT cable, length 2m. <u>Measuring range:</u> -40 to $+120^{\circ}\text{C}$
KCP 150 P	 	Penetration probe with handle Output on PVC HT cable, length 2m. Plunger $\varnothing 4.5 \times 150 \text{ mm}$. <u>Measuring range:</u> -40 to $+120^{\circ}\text{C}$
KCPA 150 I		Food penetration probe with handle Stainless steel probe, with pointer tip. Output on PVC HT cable, length 2m. Plunger $\varnothing 4.5 \times 110 \text{ mm}$. <u>Measuring range:</u> -40 to $+120^{\circ}\text{C}$
KCC 1500 I		Compost penetration probe with handle Stainless steel probe, with pointer tip. Stainless steel « T » handle. Output on PVC HT cable, length 2m. Plunger $\varnothing 16 \times 1500 \text{ mm}$. <u>Measuring range:</u> -40 to $+120^{\circ}\text{C}$
KCTB 100 I		Food penetration probe with handle, corkscrew type. Stainless steel probe, corkscrew-shaped. Stainless steel « T » handle. Output on PVC HT, length 2m. Plunger $\varnothing 8 \times 100 \text{ mm}$ <u>Measuring range:</u> -40 to $+120^{\circ}\text{C}$
KRC 5		Extension made of PVC HT, length 5m with Jack connectors (male and female).

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 calibration compensation.

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