

K 100 (W) PR

Measuring and control instrument for pH or ORP

- Easy and safe operation by plain text menu guidance
- Safety by password function



applications



Waste Water Treatment



Cooling And Boiler Feed Water



Process Water



Drinking Water / Beverages

description

The K 100 (W) PR is a sophisticated single-channel instrument for measuring and control the pH-value or the ORP. Additionally temperature measurement of the measuring media is possible. The instrument is available in a panel mounted housing (K100 PR) and in a wall mounted housing (K 100 W PR).



K 100 (W) PR

Measuring and control instrument for pH or ORP

particular characteristics

- 2 limit values with delay, assigned to alarm relay
- 2 separate PI-controller
- Dosage check
- Semi-automatic two point-calibration for pH
- Slope and zero point monitoring for pH
- Automatic or manual pH-value compensation for pH
- Background illuminated two-line LC-Display for measured value and temperature
- Serial interface RS 485 optional
- Scaleable, galvanically isolated 0/4 .. 20 mA output
- Display of relay and error messages



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technical data

input characteristics

measuring parameter	ORP pH-value Temperature
measuring range	0 .. 14.00 pH, -1500 .. +1500 mV
accuracy	+/- 0,01 pH, +/- 1 mV
temperature measuring range	-30 .. +140 °C

output characteristics

output signal	0/4 .. 20 mA (scaleable, galvanically isolated)
load	max. 500 Ohm
registration range	free scaleable within the measuring range
voltage output	+/- 6 VDC für Impedanzwandler
serial interface	RS 485 (optional)
Baud rate	9600
data format	8 bit

power supply

line voltage	24 / 117/ 230 VAC, +/-10%, 40 .. 60 Hz
power consumption	10 VA

ambient conditions

ambient temperature	Operation 0 .. +50 °C, storage -20 .. +65°C
relative humidity	max. 90% rH at 40°C (non-condensing)
protection class	panel mounted housing IP 54 (front), IP 30 (housing) wall mounted housing IP 65

controller

control response	on/off controller (adjustable hysteresis) P/PI controller (pulse-pause, pulse-frequency or continuous output)
relays	3 relays, each with a potential-free NO contact, max. 250V, 6 A, 550 VA
onset delay	0 .. 200 sec till controller active
digital input	Controller stop via external contact

certificates and approvals

CE-symbol	Declaration of conformity: The product meets the requirements of the harmonized European standards. It thus complies with the legal requirements of the EC directives. The manufacturer confirms successful testing of the product by affixing the CE symbol.
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mechanical construction - panel mounted housing

material	Noryl
dimensions	90x90x116 mm
installation dimensions	92x92x140 mm
weight	0.96 kg
connection	push-screw terminals

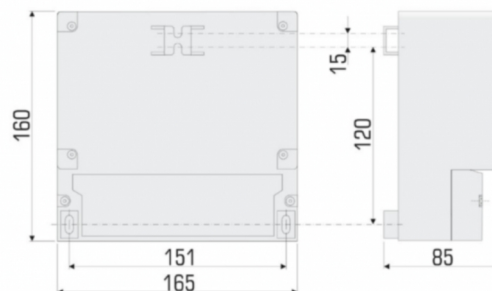
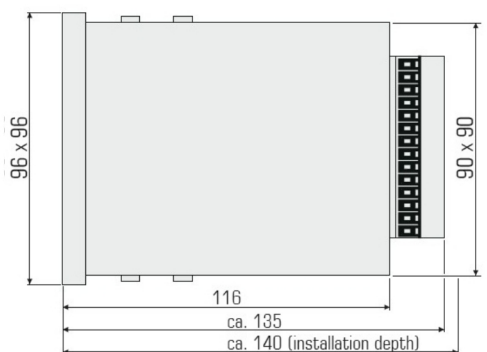


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mechanical construction - wall mounted housing

material	ABS
dimensions	165x165x85 mm
weight	1.25 kg
connection	Spring-loaded terminals



Article Numbers

Name	Description	Article Number
K 100 PR	pH or ORP and T single measurement, panel mounted housing, 230 V	100000K
K 100 W PR	pH or ORP and T single measurement	105000K

accessories

sensors

AH-300-K-1-2

The Kuntze AH-300-K-2-1 is a combination electrode with a 2 mm ceramic junction for pH measurement. The sensor is liquid filled, thus blocking resistant and particularly suitable for lightly polluted media.

AH-300-K-2-2(-PG)

The Kuntze AH-300-K-2-2(-PG) is a combination electrode for pH measurement in all-purpose applications. The sensor is gel filled, not refillable and requires little maintenance.

