

K 100 (W) PR

Measuring and control instrument for pH value 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 value 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

measuring parameter

pH-value -2.00 .. 16.00 pH
ORP -1500 .. +1500 mV

input characteristics

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 for impedance converter
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 2 relays, each with a potential-free NO contact, max. 250V, 6 A, 550 VA
1 alarmrelay with potential-free CO/NO contact, max. 250V, 6A, 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.



K 100 (W) PR

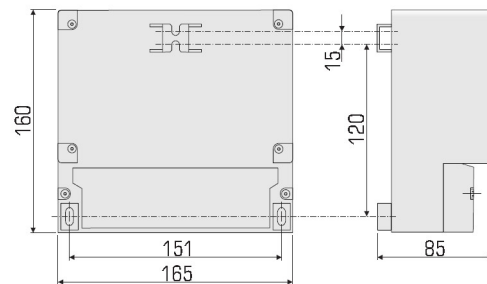
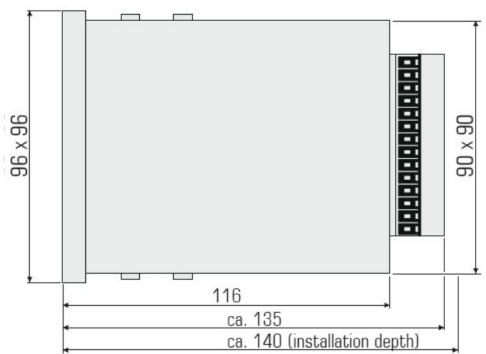
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mechanical construction - panel mounted housing

material	Noryl
dimensions	90x90x116 mm
installation dimensions	92x92x140 mm
weight	0.75 kg
connection	push-screw terminals

mechanical construction - wall mounted housing

material	ABS
dimensions	165x160x85 mm
weight	0.95 kg
connection	Spring-loaded terminals



order information

<u>name</u>	<u>description</u>	<u>article number</u>
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



K 100 (W) PP

Measuring and control instrument for pH value or ORP

accessories

accessories

PKV 30-DPS

Converter for PROFIBUS-DP for max. 32 instruments of the K 100 oder dialog series. Converting of RS 485 to PROFIBUS-DP interface, instrument in a housing for installation on a top hat rail, dimension 105 X 105 x 80 mm (HxBxT), connectioncable inclusive

RS 485 module K 100 W

S-341 data logger

The bus data logger S-341 on the base of the RS-485 with Kuntze protocol reads, shows, and stores measuring data of up to 10 Kuntze instruments with up to 8 parameters each.

