

K 100 PR

Meter for pH or ORP (programmable)



Kuntze Instruments

Instrumentation for Water
and Waste Water Analysis

3316 Leechburg Road

Lower Burrell, PA 15068

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Description

Microprocessor-controlled meter with integrated controller for water analysis applications. Suitable for pH or ORP electrodes with or without Pt 100.

Main applications

- Waste water treatment
- Water purification
- Metal finishing industry

Features

- Polycarbonate wall-mounting enclosure IP-65 NEMA 4 X
- Two-line alphanumeric liquid crystal display showing measured values and customer programmed data
- Easy user-guided operation with only five keys
- Password function preventing unauthorised access
- Adjustable for pH or ORP
- Temperature compensation (with pH) either manually or via Pt-100
- Slope monitoring (with pH)
- Galvanically isolated inputs and outputs
- Integrated controller with 2 set points
- Additional temperature display (-30 - +140 °C)



Controller

- 2 set points
- On/off-controller with adjustable hysteresis
- Proportional controller (pulse-pause or pulse-frequency controller)
- Indication of set point relay status in the display
- Manual operation of set points
- Adjustable power on delay
- Controller stop via external contact

Option

- Serial interface RS-485

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Technical data

Power:	24 or 130 or 230 VAC, + 6 %, - 10 %, 40 ... 60 Hz
Power consumption:	10 VA
Ambient temperature:	operation 0 - 50 °C storage - 20 - 65 °C
Humidity, % rF: (non-condensing)	max. 90 % at 40 °C
Enclosure:	wall-mounting polycarbonate enclosure 160 x 165 x 85 mm (HxWxD) protection class IP-65 (NEMA 4 X)
Weight:	1.25 kg
Connectors:	spring-loaded terminals
Measuring range:	0.00 – 14.00 pH / -1,500 - +1,500 mV
Accuracy:	+/- 0.02 pH / +/- 1 mV
Analogue output:	0/4 - 20 mA, galvanically isolated
Registration range:	adjustable within measuring range
Load: max.	400 Ohm
Interface (optional):	RS 485
Electromagn. compatibility:	according to DIN EN 50081-1 and 50081-2
In compliance with:	CE

Controller

to control solenoid valves or feeding pumps, 2 set points

Power on delay:	0-200 seconds (adjustable) before the controller is active
Control functions:	on/off-controller with adjustable hysteresis Proportional controller (pulse-pause or pulse-frequency controller)
Manual operation:	manual operation of set points possible
Relay output:	2 relay outputs for SP 1, SP 2, each with 1 NO/NC contact (SPDT) max. 250 V, 6 A, 550 VA; indication of set point relay status in the display
Digital input:	external contact hold (controller stop)

Order numbers:

K-100 PR with wall-mounting casing, with integrated controller	7618444
Optional serial interface RS-485	7611453

If supply voltage differs from 130 V, please indicate.