

# Krypton® Multi

(Measuring disinfectants, pH, temperature, optional ORP and Total Chlorine or conductivity)



## Multi channel water monitoring system

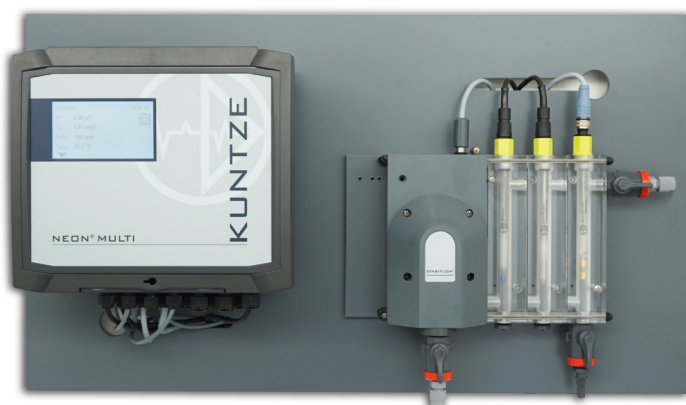
Controlled and reliable measurements are driven by Kuntze Krypton® systems. The measuring system includes all customer needs for disinfectant measurement: instrument, software, sensors, assembly and cables.

The Krypton® Multi is a measuring system for disinfectant, pH and temperature. Additionally, Redox, a 5th measurement (Total Chlorine or conductivity) can be added or the 6th input can be used for Total Chlorine measurement (Zirkon® DIS Total).

Kuntze Krypton® Multi are delivered fully assembled and ready to use.

Krypton® Multi's water measurement process can be controlled at any time, from any place, on any device via Kuntze's Cloud Connect® service. All Kuntze products are Made in Germany.

## Applications



## Technical data

### Measuring range

Disinfection	Free Chlorine, Chlorine Dioxide Ozone Hydrogen Peroxide	up to 1000 µg/l, 5.00 / 10.00 / 20.00 mg/l up to 1000 µg/l, 5.00 / 10.00 mg/l up to 30.00 mg/l
Temperature	0.. 50.0 °C (32.. 122 °F)	
pH	0.. 14.00 pH	
Redox (optional)	1500.. +1500 mV	
5th measuring input (optional)	Total Chlorine: or Conductivity:	up to 10.00 mg/l up to 100.0 mS/cm
6th measuring input (optional)	Total Chlorine (Zirkon® DIS Total)	up to 1000 µg/l, 5.00 / 10.00 / 20.00 mg/l

### Input characteristics

Exactness DIS	+/- 2 % from measuring range end (except Hydrogen Peroxid/ppm)	
Temperature measuring range	0.. 50°C (32.. 122 °F)	
Temperature compensation	0.0.. 8.0 %/K adjustable coefficient (DIS), nonlinear (pH)	
Digital input	Flow control, external controller stop, 2x level control, activation 2nd opr 3rd control parameter set, leakage	
Process conditions	pH-range	6.. 8 pH (free Chlorine) 6.. 9 pH (Chlorine dioxide, Ozone, Hydrogen peroxide) 6.. 10 pH (Total Chlorine)

Process conditions	Flow	Depending on assembly
	Min. conductivity	>150 µS/cm
	Temperature	Depending on sensor, assembly and reference measurement
	Pressure	Depending on sensor, assembly and reference measurement

## Output characteristics

Alarm relay	up to 4 potentialfree CO, max. 250 V; 2 A, 550 VA
Output signal	Optional: 5 x 0/4.. 20 mA (scaleable, galvanically isolated)
	Load max. 500 Ohm
	Registration range Scaleable within the measuring range
Storage media	SD card up to 1 GB - Industry standard
Serial interface	Option: RS 485 Modbus RTU
	Baud rate 19200 kbs (Modbus)
	Data format 8 bit

## Power supply

Line voltage	85.. 265 V AC / DC, 50.. 60 Hz
Power consumption	10 VA

## Process conditions

Temperature	Storage	-20°.. +65°C (-4°..149°F)
		exception sensor: 0..+30°C (32°..86°F)
	Operation	0°.. +50°C (32°.. 122°F)
Humidity	max. 90% rH at 40°C (non-condensing)	
Protection class	Wall mounted	IP 65

## Controller

Control parameter	Free Chlorine, pH and other parameter optional
Control response	on/off controller (adjustable hysteresis) P/PI/PID controller (pulse-pause, pulse-frequency or continuous output) 3-point controller with or without position feedback
Relay	4 relays, each a potential-free CO contact, max. 250 V, 2A, 550 VA
Start delay	0.. 200 sec till controller active
Digital input	see input characteristics
Control parameter set	2nd and optional 3rd parameter set for night operation etc.

## Language

Default language	English and German
Other options	Russian, Danish, Dutch, French, Polish, Spanish

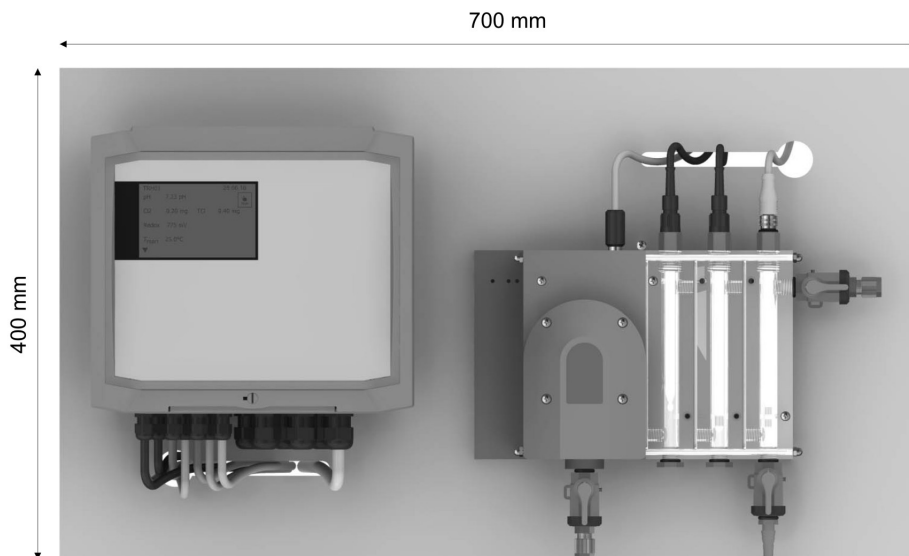
## Certificates and approvals

CE-Symbol	The product meets the requirements of the harmonized European standards and complies with the legal requirements of the EC directives.
EMC	EN 61000 6-1 (3) EN 61000 6-2 (4) EN 61326-1

## Design configuration

Material	Board	PVC
	Assembly	PVC
	Instrument	ABS
	Sensor	Glass, plastic / gold / platin / Hastelloy
Dimensions	700 x 400 mm	
Weight	1.9 kg	
Connection	cable inlet:	6x M16, 10x M12
	plug-in terminal:	rigid/ flexible 0.14 - 1.5 mm <sup>2</sup>
	relays / power supply	starr/flexibel 0.2-1 / 0.2-1.5 mm <sup>2</sup>
	distribution block	0.5-1.5/ 0.5-1.5 mm <sup>2</sup>
	water hose connection	DN 6/8

## Mechanical drawing



## Interface diagram

