

Krypton® DIS Total

Disinfectant measurement

Single channel water monitoring system

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

The Kuntze Krypton® DIS Total is used to measure Total Chlorine and temperature. Kuntze Krypton® DIS Total is delivered fully assembled and ready to use.

The 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



Process Water



Disinfection



Drinking Water



Waste Water
Treatment



Pool & Spa

Krypton® DIS Total

Technical data

Measuring range

Total Chlorine up to 1000 µg/l, up to 5.00 mg/l / 10.00 mg/l / 20.00 mg/l

Input characteristic

Temperature measuring range -30.0 °.. +140.0 °C (-22.0 °.. 284 °F)
Temperature compensation 0,0.. 8,0 %/K adjustable coefficient
Digital input 1 as controller stop by external contact, option: 2nd as controller stop or flow measurement for volume based dosing
Process conditions assembly
Flow input > 0.5bar (7.3 psi)
Flow output after ~30l/h (7.9 gph)
Stabiflow
Temperature 0..50 °C
pressure < 6 bar @20°C (87psi @ 68°F)

Output characteristics

Alarm relay 1 potential-free N/O contact, max. 250 V, 6 A, 550 VA (invertable)
Output signal Option: 2 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 bps
Data format 8 bit

Power supply

Line voltage 85.. 265 V AC, +6/-10 %, 50.. 60 Hz; option: 24 V DC
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)
pH range pH 6.. 10
Humidity max. 90 % rH at 40 °C (non-condensing)
Ingress protection Wall mounted IP 65

Controller

Control response Option: on/off controller (adjustable hysteresis)
P/PI/ PID controller (pulse-pause, pulse-frequency or continuous output)
3-point controller
Relay 2 relays, each with a potential-free N/O contact, max. 250 V, 6 A, 550 VA
Start delay 0.. 200 sec until controller activation
Controller stop Digital input

Proportional to volume

Control mode	Option: volumed based by flow measurement
Flow measurement	Impuls measurement NPN (by digital input 2)
Flow measurement	Engine speed 0.030.. 9.999 l/Imp
Relay 1	Potential-free N/O contact, max. 250 V, 6 A, 550 VA (pulse-pause, pulse-frequency)
Relay 2	Activating circulation pump

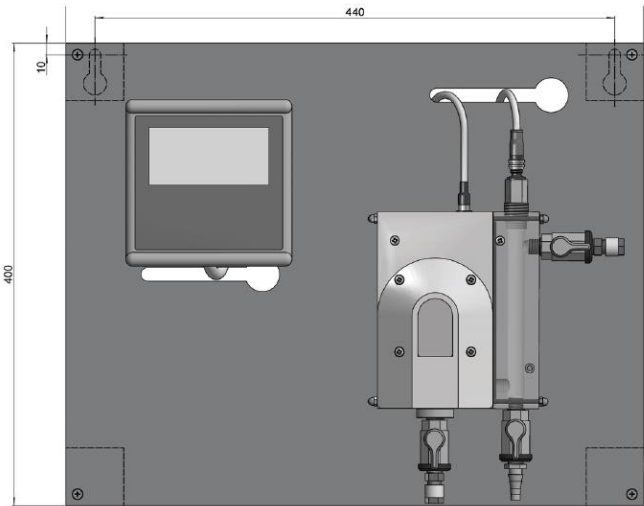
Certificates and approval

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

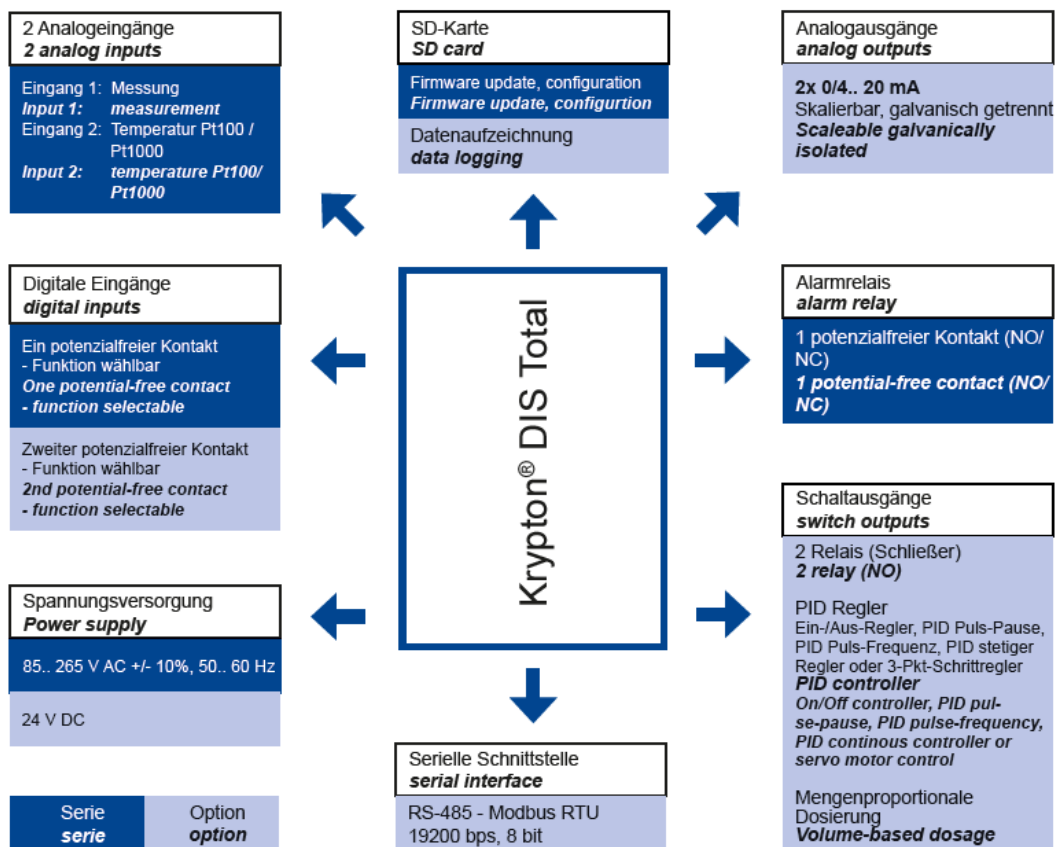
Design configuration

Material	Board Assembly Instrument Sensor	PVC PVC ABS Glass, plastic / platin / InnoDisk®
Dimensions	400 x 500 mm	
Connection	cable inlet plug-in terminal relays / power supply distribution block water hose connection	1 x M16, 2 x M12 rigid / flexible 0.14 - 1.5 mm² rigid / flexible 0.2 - 1 / 0.2 - 1.5 mm² rigid / flexible 0.5 - 1.5 / 0.5 - 1.5 mm² DN 6/8

Mechanical drawing



Interface diagram



Kuntze Instruments GmbH
 Robert-Bosch-Str. 7a
 40688 Meerbusch
 Germany

+49 2150 70660
 info@kuntze.com
 www.kuntze.com