Krypton® DIS Total

Krypton® DIS Total

Disinfectant measurement

Single channel water monitoring system

The Krypton® DIS Total is our specialized system for reliable measurement of total chlorine (free and combined chlorine) and water temperature. The single-channel monitoring system consists of a measureing device, a sensor, flow fittings, software, and cables. In the standard version, the Krypton® DIS Total is equipped with a total chlorine and temperature measurement. In addition, there is a digital input and an alarm relay. Our patented, modular Argon Stabiflow® flow fitting is integrated and ensures a constant water flow of approx. 30 liters per hour, is salt and pressure resistant up to 6 bar at a temperature of 20 °C. The Krypton® DIS Total can also be extended with additional analog outputs, concentration, or volume-based control functions, as well as a Modbus RTU unit and a data logger. Full connectivity with an existing measurement infrastructure can be established via our Cloud Connect® service. Software updates and addon modules can be activated at any time after purchase. All Kuntze products are Made in Germany.



Applications









Disinfection

Industrial Water

Pool & Spa

Drinking Water









Process Water

Cooling Water

Food/ Beverages

Waste Water Treatment

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

Temperature compensation

Process conditions assembly

Digital input

-30.0 °.. +140.0 °C (-22.0 °.. 284 °F) 0,0.. 8,0 %/K adjustable coefficient

1 as controller stop by external contact, option: 2nd as controller stop or

flow measurement for volume based dosing Flow input: > 0.5 bar (7.3 psi)

Flow output after Stabiflow®: ~30l/h (7.9 gph) Temperature: 0..50 °C

Pressure: < 6 at 20 °C (87psi at 68 °F)

Output characteristics

Alarm relay 1 potential-free N/O contact, max. 250 V, 6 A, 550 VA (invertible)

Output signal Option: 2 x 0/4 .. 20 mA (scalable, galvanically isolated)

Load: Max. 500 Ohm

Registration range: Scalable 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 Impuls measurement NPN (by digital input 2) Flow measurement Engine speed: 0.030.. 9.999 I/Imp

Relay 1 Potential-free N/O contact, max. 250 V, 6 A, 550 VA

(pulse-pause, pulse-frequency)

Relay 2 Activating circulation pump

Krypton® DIS Total

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: PVC

Assembly: PVC Instrument: ABS

Sensor: Glass, POM / Platin / InnoDisk®

Dimensions 400 x 500 mm

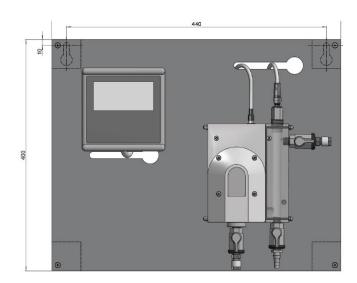
Connection Cable inlet: 1 x M16, 2 x M12

Plug-in terminal: Rigid / flexible 0.14 - 1.5 mm²

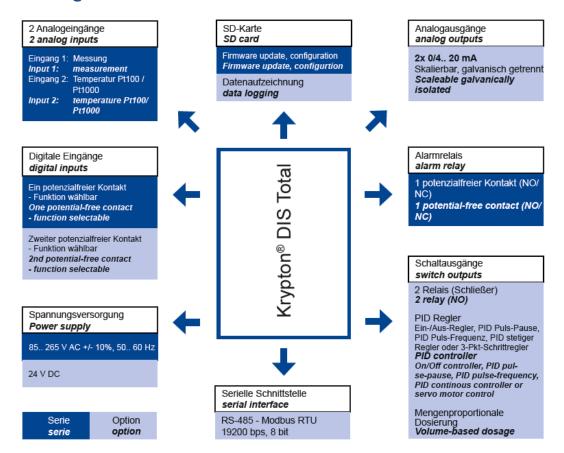
Relays / power supply: Rigid / flexible $0.2 - 1 / 0.2 - 1.5 \text{ mm}^2$ Distribution block: Rigid / flexible $0.5 - 1.5 / 0.5 - 1.5 \text{ mm}^2$

Water hose connection: DN 6/8

Mechanical drawing



Interface diagram





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