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

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 Stabiflow	~30l/h (7.9 gph)
	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

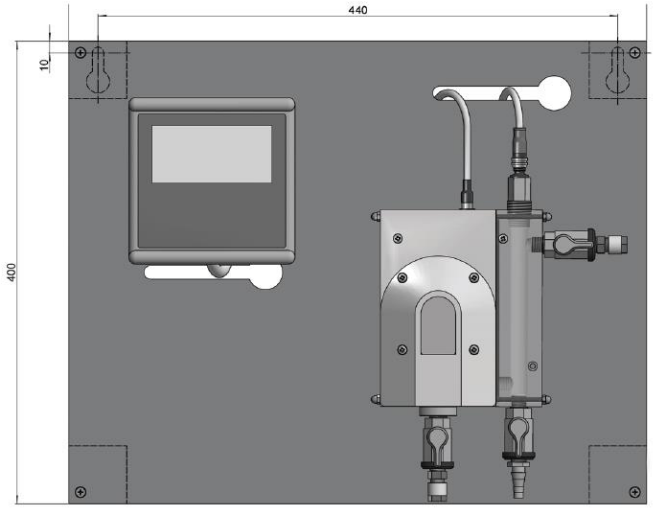
Certificates and approval

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

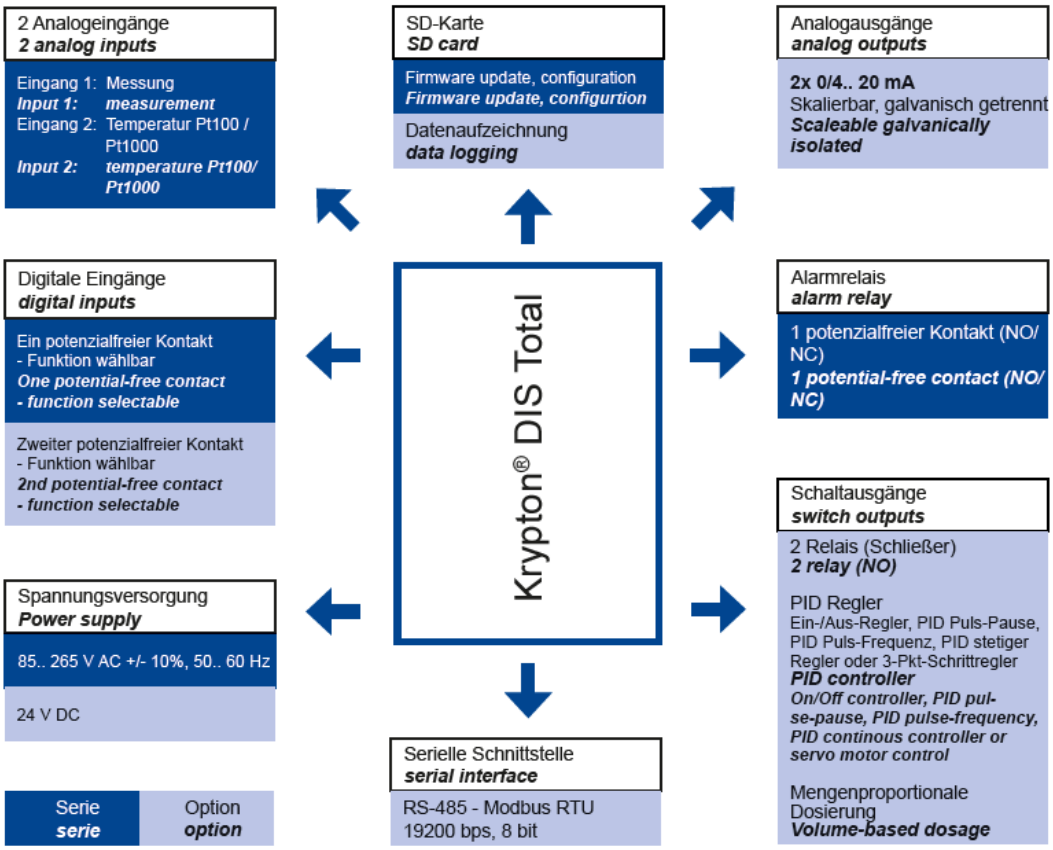
Design configuration

Material	Board	PVC
	Assembly	PVC
	Instrument	ABS
	Sensor	Glass, plastic / 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 mm²
	distribution block	rigid / flexible 0.5 - 1.5 / 0.5 - 1.5 mm²
	water hose connection	DN 6/8

Mechanical drawing



Interface diagram



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