

Neon[®] EC Conductivity measurement

Single channel water monitoring instrument

Neon[®] is a leading edge measuring and control instrument. Its range of functions can be tailored according to customers' applications. The entry level version contains inputs for measurements and temperature, one digital input and an alarm relay. Various add-ons are available to expand the functionality as well as wall mounted or panel mounted housing.

Neon'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.



CLEAR. CONTROL. CONNECT.



Neon® EC

Technical data

Measuring range

Conductivity (inductive) Conductivity (conductive)	Up to 2.000 mS/cm, 20.00 mS/cm, 200.0 mS/cm to 2000 mS/cm Up to 2.000 μ S/cm C=0.05/cm (TDS 1.000 ppt) Up to 20.00 μ S/cm C=0.05/cm (TDS 10.00 ppt) Up to 200.0 μ S/cm C=0.05/cm (TDS 100.0 ppt) Up to 2.000 mS/cm C=0.20/cm, 20.00 mS/cm C= 1.00/cm	
Input characteristic		
Temperature measuring range Temperature compensation Digital input	-30.0 +140.0 °C (-22.0 ° 284 °F) 0.0 8.0 % / K adjustable or ultrapure water compensated (EC) 1 as controller stop by external contact, option: 2 nd as controller stop	
Output characteristics		
Alarm relay Output signal Storage media Serial interface	Option: 2 x 0/4 20 mA (Load: Registration range: SD card up to 1 GB – Ind	act, max. 250 V, 6 A, 550 VA (invertable) (scaleable, galvanically isolated) 500 Ohm Scaleable within the measuring range dustry standard RS 485 Modbus RTU
		19200 bps 8 bit
Power supply		
Line voltage Power consumption	85 265 V AC, +6/-10 %, 10 V	50 60 Hz; option: 24 V DC
Ambient conditions		
Temperature	Storage: Operation:	-20 +65 °C (-4 ° +149 °F) 0 +50 °C (32 ° 122 °F)
Humidity Protection class	max. 90 % rH bei 40 °C (Wall mounted: Panel mounted:	
Controller		
Control response	Option: on/off controller (adjustable hysteresis) P / PI / PID controller (pulse-frequency or continious output) servo motor control 2 relays, each with a potential-free N/O contact, max. 250 V, 6 A, 550 VA 0 200 seconds until controller active Digital input	
Relay Start delay Controller stop		
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.	
EMV/EMC	EN 61000 6-1 (3) EN 610	

Neon® EC

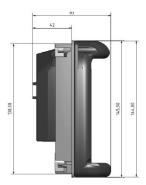
Design configuration

Material	ABS	
Dimensions	Panel mounted housing:	138 x 138 x 83 mm (max. Wall thickness: 5 mm)
	Wall mounted housing:	144 x 144 x 156 mm
Mounting dimension	Panel mounted housing:	138 x 138 x 42 mm
Weight	0.6 kg (wall mounted housing: 1 kg)	
Connection	Cable inlet:	2 x M16, 2 x M12 + opt.: 2 x M12 and 1 x M25
	Plug-in terminal:	Rigid / flexibel 0.2 – 2.5 / 0,2 – 2.5 mm ²
	Measurement:	Rigid / flexibel 0.2 - 1 / 0.2 – 1.5 mm ²

Mechanical drawing

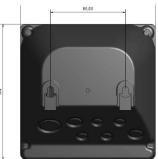
Neon[®] panel mounted



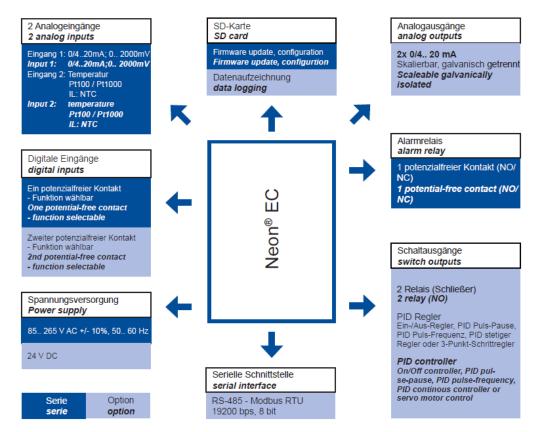


Neon[®] wall mounted





Interface diagram



Article No.

142191K	Neon® EC IL 24 V DC
142101K	Neon [®] EC 24 V DC



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

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