- Display of TDS possible
- Fitting for your application by modular setup
- Simple firmware update and configuration using SD-card



Neon® Touch wall mounted housing

Applications



Process Water



Drinking Water / Beverages



Waste Water Treatment

Description

The Neon® is a leading edge measurement and control instrument and its range of functions can be tailored according to your application. The entry level version contains input / outputs for measurement and temperature, key operation, a digital input and a alarm relay. The Neon® is expandable through software upgrades and add on modules. It is possible to add up to two additional analogue outputs, control functions either concentration-based or volume-based, modbus interface, and Datalogger. The information displayed on the screen can be selected by the user. With multiple installations the same settings within the software can be duplicated in additional instruments using industry standard SD cards. The new Neon® 'Touch' is simplicity in a small package, it has an up to date touch screen to navigate through the Neon® menus easily and intuitively. The Neon® LF can be used for the measurement of conductivity.

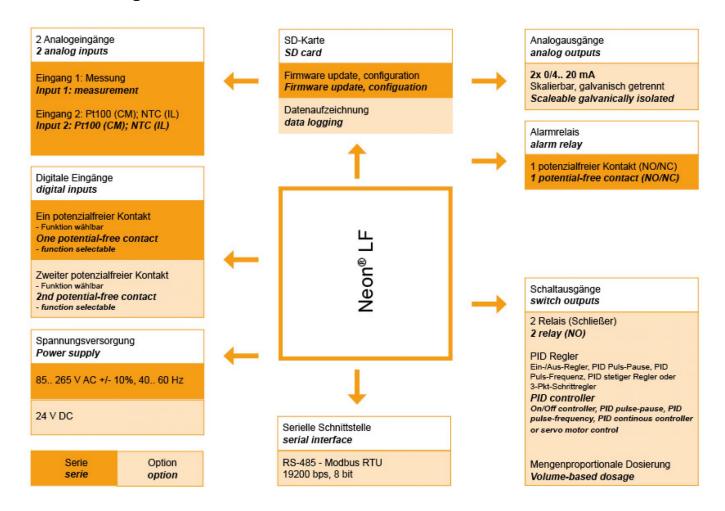


Particular characteristics

- 85 .. 265 V AC power supply
- 90x50 mm Display optional Touch
- Real time clock
- Automatic or manual temperature compensation
- 2 limit values with delay, assigned to the alarm relay
- Alerts selectable for alarm relay
- Safety by autolock function
- Eventlog and event help
- Test menu for wiring check
- SD card function: firmware update, configuration and diagnosis file
- Power saving adjustable
- 2 user levels by password function
- Graphical menu
- Functional upgrade by activation code or with modules
- Option: 24 V DC
- Option: RS 485 Modbus RTU
- Option: 2 mA outputs 0/4 to 20 mA adjustable with fault current
- Option: 2 PID controller with 2 control relays
- Option: volume-based dosage with 2 control relays
- Option: 2nd digital input
- Option: data log function



Interface diagram



Technical data

Measuring parameter

Conductivity (conductive)

Conductivity (inductive)

0.. 2.000 mS/cm

0.. 20.00 mS/cm

0.. 200.0 mS/cm

0.. 2000 mS/cm

0.. 2.000 μS/cm C=0,05 /cm

 $0..~20.00~\mu S/cm~C{=}0,05~/cm$

0.. 200.0 µS/cm C=0,05 /cm

0.. 2.000 mS/cm C=0,20 /cm

0.. 20.00 mS/cm C=1,00 /cm

0.. 200.0 mS/cm C=10 /cm





Input characteristics

Temperature measuring range

Temperature coefficient

Digital input

-30.0 .. +140.0 °C

0.0 .. 8.0 %/K adjustable or non-linear

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

measurement for volume based dosing

Output characteristics

Alarm relay 1 potential-free NO contact, max. 250 V, 6 A, 550 VA (invertable)

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

Load 500 Ohm

Registration range Scaleable within the measuring range

Storage media Accessory: SD card up to 2 MB - Industry standard

Serial interface Option: RS 485 Modbus RTU

Baud rate 19200 bps Data format 8 bit

Power supply

Line voltage 85.. 250 V AC, +6/-10%, 40.. 60Hz option: 24 V DC

Power consumption 10 VA

Ambient conditions

Temperature Storage -20.. +65°C

Operation 0 .. +50°C

Humidity max. 90% rH at 40°C (non-condensing)

Protection class Wall mounted IP 65

Panel mounted IP 54 (front), IP 30 (housing)

Controller

Start delay

Control response Option: on/off controller (adjustable hysteresis) P/PI/ PID controller

(pulse-pause, pulse-frequency or continuous output) servo motor control

Relay 2 relays, each with a potential-free NO contact, max. 250V, 6 A, 550 VA

0.. 200 sec until controller active

Controller stop Digital input

Proportion to volume

Control mode Option: quantity 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. 250V, 6 A, 550 VA output of

control variable as pulse frequency or pulse pause.

Relay 2 Activating circulation pump





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.

EMV/EMC EN 61000 6-1 (3) EN 61000 6-2 (4) EN 61326-1

Design configuration

Material ABS

Dimensions Panel mounted housing: 138x138x83 mm; Wall mounted housing:

144x144x156 mm

Mounting dimension Panel mounted housing: 138x138x42 mm
Weight 0.6 kg (wall mounted housing: 1 kg)

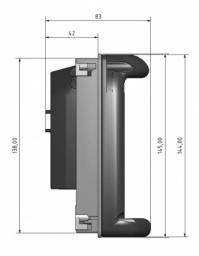
Connection Cable inlet: 2x M16, 2x M12 + optional: 2x M12 and 1x M25 plug-in terminal:

rigid /flexible 0.2-2.5 mm / 0.2-2.5 mm measurement rigid /flexible 0.2-1

mm / 0.2-1.5 mm

Mechanical drawing





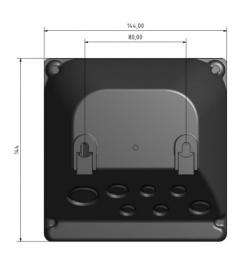
Panel mounted housing



Neon® LF

Conductivity measurement





Wall mounted housing





Order information

Olu	CI.	intormation
Grundtyp <i>type</i>		
type	140	Neon® Tasten (1 digitaler Eingang und Alarmrelais)
	140	Neon® Keys (1 digital input and alarm relay)
	142	Neon® Touch (1 digitaler Eingang und Alarmrelais) Neon® Touch (1 digital input and alarm relay)
Messparar		
measuring		konduktive Leitfähigkeit
	100	conductive conductivity
	190	Induktive Leitfähigkeit inductive conductivity
Spannungs	versorg	
power sup	ply	
	6	85230 VAC 24 VDC
Schnittstel	len /	
interfaces		keine
	0	none
Pogolium	2	Modbus RTU
Regelung / controller		
	0	keine none
		PID mit 2 Regelrelais
	1	PID with 2 control relays
	2	Mengenproportionale Dosierung mit 2 Regelrelais volume based dosing with 2 relays
Eingänge		
inputs		Protection of Planta (Park)
	0	Erster digitaler Eingang (Basis) / first digital input (basic)
	1	Zweiter digitaler Eingang /
Ausgänge		second digital input
outputs	<i>f</i>	
	0	keine none
	1	Erster mA Ausgang
	1	first mA output
	2	Zweiter mA Ausgang second mA output
Sonderfun		
special fur		keine
	0	none
	2	Datenaufzeichnung datalogging
Reinigung		www.agyg
deaning		to a second seco
	0	keine none
	2	DES Reinigung
Gehäuse	_	DES cleaning
housing		
	s	Schalttafeleinbau (Front IP 54)
		panel mounted (front IP 54) Wandaufbau
	W	wall mounted (IP 65)
Sprache <i>language</i>		
Jangauge	DE	Deutsch
	DE	german
	EN	Englisch english

Choose the components you need and that's how your "assembly version" is designed. We will have to technically inspect and approve a free combination of individual key features.



Accessories <u>accessories</u>

Industrial SD card 1MB Industry standard SD card

