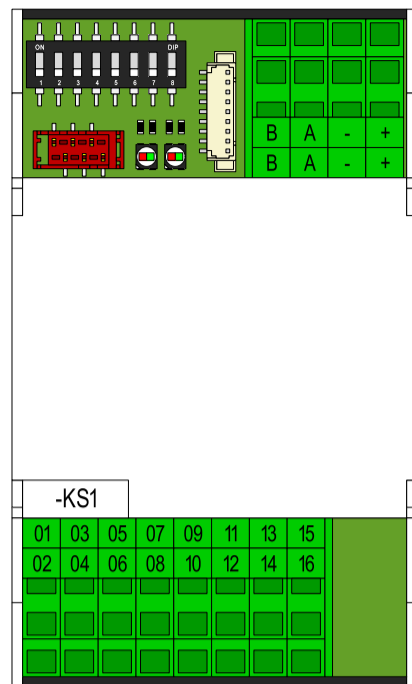


## Image



## Connection data

+	DC24V[+]	Voeding DC24V[+]
+	DC24V[+]	Voeding DC24V[+]
-	DC24V[-]	Voeding DC24V[-]
-	DC24V[-]	Voeding DC24V[-]
A	RS485[A]	Communicatie bus RS485[A]
A	RS485[A]	Communicatie bus RS485[A]
B	RS485[B]	Communicatie bus RS485[B]
B	RS485[B]	Communicatie bus RS485[B]

01	IN_U1	Voltage sensor electro dialysis stack
02	GND	GND measurements [IN_D1], [IN_D2]
03	IN_U2	Current sensor electro dialysis stack
04	GND	GND measurements [IN_D3], [IN_D4]
05	IN_U3	Unit release contact
06	GND	GND measurements [IN_D5], [IN_D6]
07	IN_U4	Unit external alarm contact
08	GND	GND measurements [IN_D7], [IN_D8]
09	IN_U5	Not available
10	IN_P1	Flow sensor waste water
11	IN_U6	Not available
12	GND	GND measurements [IN_P1]
13	IN_U7	Not available
14	IN_P2	Not available
15	IN_U8	Level switch drain tank 1 empty
16	GND	GND measurements [IN_P2]

## Commercial data

Product code	20801930
Product description	Smartswitch 46-9225b[00]_0 NoNa+ input module 2
Packing unit	1
Weight	0.099[kg]
Custom tariff number	8537.10.91
Country of origin	NL (Netherlands)

## Dimensions

Width	53.60 [mm]
Height	89.60 [mm]
Depth	81.00 [mm]

## Standards and regulations

EMC	Conformance with EMC directive 2014/30/EU
RoHS	Conformance with RoHS directive 2011/65/EU
WEEE	Conformance with WEEE directive 2002/96/EC

## Connection data, details

+	DC24V[+]	Terminal power supply DC24V of Smartswitch, polarity [PLUS]. The free [PLUS][+] terminal can be used to supply power to a continuous Smartswitch.
+		
-	DC24V[-]	Terminal power supply DC24V of Smartswitch, polarity [MIN]. The free [MIN][-] terminal can be used to supply power to a continuous Smartswitch.
-		
A	RS485[A]	Terminal RS485 communication bus, signal line [A].
A		
B	RS485[B]	Terminal RS485 communication bus, signal line [B].
B		

01	IN_U1	Analog input for voltage sensor that measures the electric voltage that is connected to the electro dialysis stack.
02		

03	IN_U2	Analog input for current sensor that measures the electric current that flows through the electro dialysis stack.
02		

05	IN_U3	Digital input for dry contact [NO], that when closed releases the unit for operation. When not used interconnect [05] en [04].
04		

07	IN_U4	Digital input for dry contact [NC], that when opened will raise an external alarm in the control. When not used interconnect [07] en [04].
04		

15	IN_U8	Digital input for dry contact [NC], that when opened will cause a detection drain tank 1 empty in the control. When not used interconnect [15] and [08].
08		

10	IN_P1	Pulse input for flow sensor that registers the amount of waste water that has passed.
12		



### Ambient conditions

Degree of protection	IP20	
Ambient temperature (operation)	-10...50 [°C]	14...122 [°F]
Ambient temperature (storage/transport)	-20...50 [°C]	-4...122 [°F]
Permissible humidity (operation)	20...85 [%]	
Permissible humidity (storage/transport)	20...85 [%]	

### Terminal data

Conductor cross section solid min.	0.2 [mm²]
Conductor cross section solid max.	2.5 [mm²]
Conductor cross section flexible min.	0.2 [mm²]
Conductor cross section flexible max.	2.5 [mm²]
Conductor cross section AWG min.	24
Conductor cross section AWG max.	14

### General

Mounting type	DIN rail mounting according to EN 60715
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### Supply voltage

Power supply	DC24V
Current consumption typically	≤ 50 [mA], at DC24V, at 25 [°C]

### Data interface

Interface 1	RS485
Connection method	Spring-cage connection
Transmission medium	2-wire Twisted-Pair + signal ground
Transmission length max.	1200 [m] <b>1</b>
Transmission speed	115.2 [kBit/s]

### Pulse input

Number of inputs	1
Measuring range	0.0 ... 1000 [Hz]

### Notification

Location	LED status	Status Smartswitch control
PCB [1]	Green continuously	Smartswitch connection with touchscreen controller is active. Smartswitch control is inactive.
	Green blinking	Smartswitch connection with touchscreen controller is active. Smartswitch control is active. Smartswitch control alarm status is inactive.
	Red continuously	Smartswitch connection with touchscreen controller is inactive. Smartswitch control is inactive.
	Red blinking	Smartswitch connection with touchscreen controller is active. Smartswitch control is active. Smartswitch control alarm status is active.

Location	LED status	Status bus communication
PCB [2]	Green blinking	Smartswitch is receiving data over the bus [Rx].
	Red blinking	Smartswitch is transmitting data over the bus [Tx].

### Flow sensor

Product code	04004000	
Product description	F15 flowmeter P51530-P0	
[05] - IN_P1	[1]	Red
[14] - GND	[2]	Black

### Remarks

<b>1</b>	<b>Transmission length max.</b> The transmission length max. (i.e. Maximum length of the RS485 BUS-cable in the installation) of 1200 [m], only applies when a suitable RS485 Bus-cable type is utilized in the installation.  General specification for RS485 BUS-cable: • Suitable for bus systems based on RS485, • Twisted pair(s), • Shielded, • Characteristic impedance 120 [Ohm].  Recommended cable types: 32002810 Buskabel UNITRONIC BUS LD 2x2x0.22 100 [m] 32002811 Buskabel UNITRONIC BUS LD 2x2x0.22 300 [m] 32002812 Buskabel UNITRONIC BUS LD 2x2x0.22 500 [m]  32002820 Buskabel UNITRONIC BUS LD 3x2x0.22 100 [m]
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### Schematic

