

+	DC24V [+]	Power supply DC24V [+]
+	DC24V [+]	Power supply DC24V [+]
-	DC24V [-]	Power supply DC24V [-]
-	DC24V [-]	Power supply DC24V [-]
A	RS485 [A]	Communication bus RS485 [A]
A	RS485 [A]	Communication bus RS485 [A]
B	RS485 [B]	Communication bus RS485 [B]
B	RS485 [B]	Communication bus RS485 [B]

+	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].
B	RS485 [B]	Terminal RS485 communication bus, signal line [B].

pH sensor	
Product code	04002010
Product description	PHC pH sensor (0 - 7 bar) BNC

Flow sensor	
Product code	04004000
Product description	F15 flowmeter P51530-P0

01	VCOM	Common relay outputs
02	VCOM	Common relay outputs
03	OUT_ON	Output relay 1 [contactor device on]
04	OUT_OP	Output relay 2 [contactor device open]
05	IN_P	Input pulse
06	OUT_CL	Output relay 3 [contactor device close]
07	NA	Not available
08	NA	Not available
09	NA	Not available
10	NA	Not available
11	GND	GND measurements [IN_P], [IN_D1], [IN_D2]
12	GND	GND measurements [IN_P], [IN_D1], [IN_D2]
13	IN_D2	Input digital 2
14	IN_D1	Input digital 1

01	VCOM	Terminal P-contacts of relays. Connect desired voltage type that has to be switched; DC24V [+], or AC24V [P].
03	OUT_ON	Relay contact for switching the power stage of a H2O2 (hydrogen peroxide) dosing pump, and an acid dosing pump. The relay contact switches what is provided on the terminal(s) [VCOM].
04	OUT_OP	Relay contact for switching the power stage of integrator input [HIGHER] of an acid dosing pump. The relay contact switches what is provided on the terminal(s) [VCOM]. A higher position of the acid pump integrator has to result in a lower pH value.
06	OUT_CL	Relay contact for switching the power stage of integrator input [LOWER] of an acid dosing pump. The relay contact switches what is provided on the terminal(s) [VCOM]. A lower position of the acid pump integrator has to result in a higher pH value.
05	IN_P	Pulse input for the signal of a flow sensor, that registers the shifted amount of fluid in the main pipe of a CleanLite system.
11	GND	

15	pH_1	Input pH 1
16	NA	Not available

14	IN_D1	Digital input for dry contact [NO], that when closed will initiate a start of the CleanLite control.
12	GND	
13	IN_D2	Digital input for dry contact [NC], that when opened will initiate a stop of the CleanLite control.
12	GND	
15	pH_1	Analog input for the signal of pH sensor 1.

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 transmits data over the bus [Tx].

Location	LED status	Status device control
Rotary switch [1]	Green continuously	The control [open] is currently active. The connected device is being opened.
Rotary switch [1]	Red continuously	The control [close] is currently active. The connected device is being closed.
Rotary switch [2]	Green continuously	The control [on] is currently active. The connected device is switched on.



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SUBJECT:	DATASHEET			AUTHOR:	AKO
PROJECT NUMBER:	PD15.003	SCALE:	1 : 1	INITIAL DATE:	01/01/2017
FILE CODE:	170058	TYPE:	DRA	REVISION DATE:	01/05/2017
FILE NAME:	Datasheet 20801620 SSW pH control CleanLite [1xOC + 1xOO +1xQU].vsd			COUNTRY:	044
				VERSION:	010
				PAGE:	1 OF 2

Commercial data	
Product code	20801620
Product description	SSW pH control CleanLite [1xOC + 1xOO + 1xQU]
Packing unit	1
Weight	200,67 [g]
Custom tariff number	8537.10.91
Country of origin	NL (Netherlands)

Dimensions	
Width	107,6 [mm]
Height	89,6 [mm]
Depth	81,0 [mm]

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

General	
Mounting type	DIN rail mounting according to EN 60715

Power supply	
Supply voltage	DC24V
Current consumption max.	≤ 50 [mA], bij DC24V, bij 25 [°C]

Serial interface	
Interface 1	RS485
Connection method	Spring-cage connection
Transmission medium	2-wire Twisted-Pair + signal ground
Transmission length	500 [m]
Transmission speed	115,2 [kBit/s]

pH input	
Number of inputs	2
Measuring range	0,0 ... 10,0


Pulse input	
Number of inputs	1
Measuring range	0 ... 1000 [Hz]

Relay output	
Number of outputs	3
Contact configuration	Normally open contact
Switching voltage max.	24 [V], AC/DC
Switching current max.	1 [A], at 24 [V], AC/DC
Mechanical service life	50 x 10 <sup>6</sup> operations

Connection data	
Conductor cross section solid min.	0,2 [mm <sup>2</sup> ]
Conductor cross section solid max.	2,5 [mm <sup>2</sup> ]
Conductor cross section flexible min.	0,2 [mm <sup>2</sup> ]
Conductor cross section flexible max.	2,5 [mm <sup>2</sup> ]
Conductor cross section AWG min.	24
Conductor cross section AWG max.	14

Standards and regulations	
Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU

Revisions				
Document	Date	Author	Action	Revision
170058DRA010 044	01/05/2017	Blokland, M.A.A.	Finalized	Final version.
170058DRA001 044	01/01/2017	Blokland, M.A.A.	Initial	Initial version.

	PROJECT NAME:	<b>HortiMax Go</b>			STATUS:	<b>PUBLISHED</b>
	SUBJECT:	<b>DATASHEET</b>			AUTHOR:	<b>MBL</b>
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	FILE CODE:	<b>170058</b>	TYPE:	<b>DRA</b>	VERSION:	<b>010</b>
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