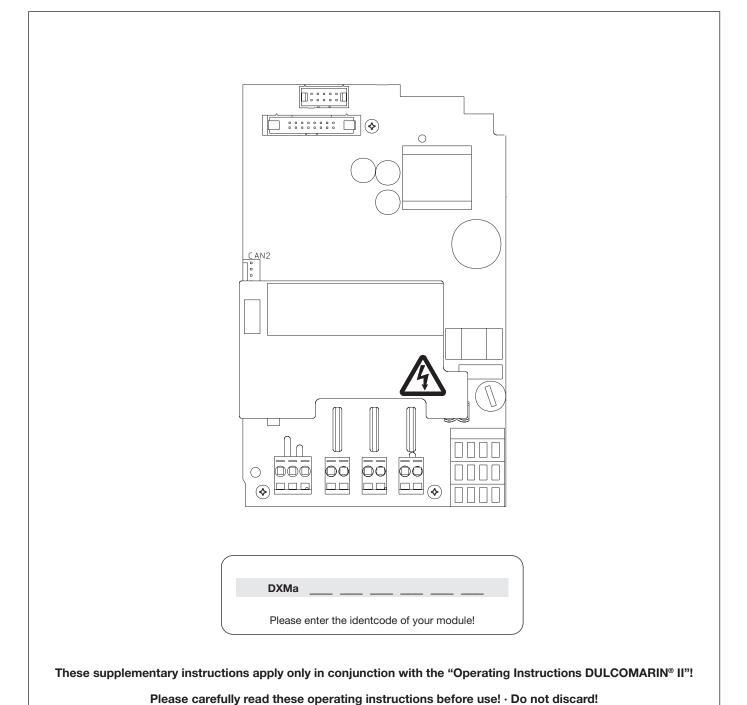


Supplementary Instructions

DULCOMARIN® II, P Module (Power Supply Module with relays) DXMaP





Part No. 986903

The operator shall be liable for any damage caused by installation or operating errors!

Imprint

Imprint:

Supplementary Instructions
DULCOMARIN® II, P Module
(Power Supply Module with relays)
DXMaP
© ProMinent Dosiertechnik GmbH, 2004

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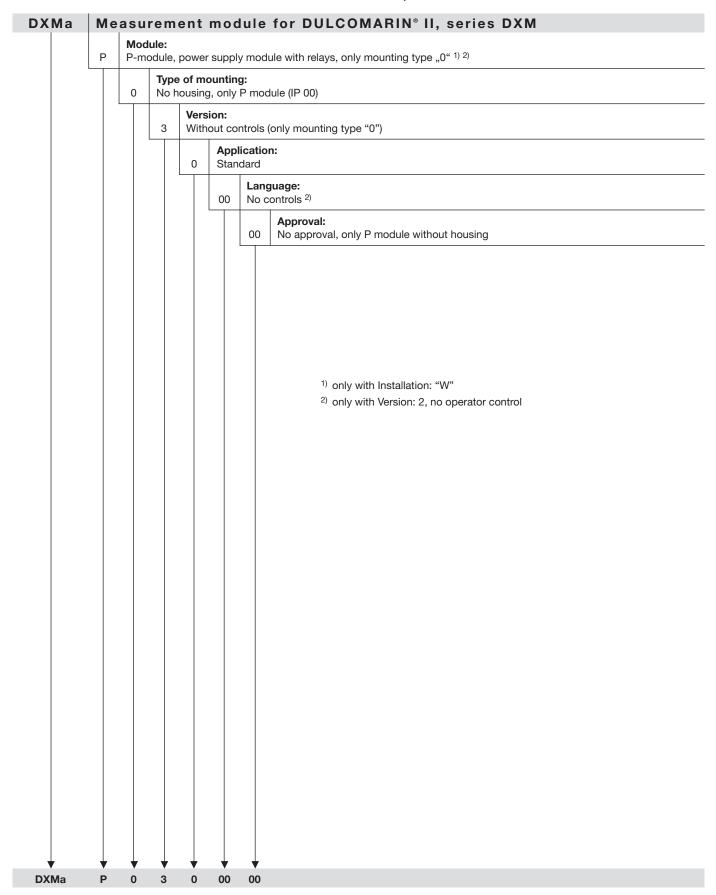
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Identcode

Identcode

The identcode describes the external modules for the **DULCOMARIN® II, series DXM**



DXMa Internal modules for DULCOMARIN® II, series DXC.

These modules can be ordered via the identcode of the DXC (see "Operating Instructions DULCOMARIN® II, Part 1: Mounting and Installation").

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1 About this module

The power supply module DXMaP with alarm relay and solenoid valve relay provides power to the DULCOMARIN® II compact and facilitates control of 3 solenoid valves or peristaltic pumps via pulse frequency, e.g. to raise and lower the pH value, to dose disinfectants or flocculants, to minimise combined chlorine.

The power supply module DXMaP is equipped with the following outputs:

- power relay output for alarm signalling
- power relay output for solenoid valve or peristaltic pump (pH correction)
- power relay output for solenoid valve or peristaltic pump (disinfectant)
- power relay output for peristaltic pump (flocculant) or relay output (minimizing combined chlorine)

and a power input.

2 Safety chapter



CAUTION

- The power supply module DXMaP may only be used for controlling alarm horns, solenoid valves, and peristaltic pumps as well as for voltage supply to the DULCOMARIN® II DXCa.
- The power supply module DXMaP may only be used as component part of the DULCOMARIN® II.
- The installation may only be performed by specially trained personnel!

3 Storage and transport

Only store and transport the module in its original packaging!



IMPORTANT

Also protect the packaged module against humidity and exposure to chemicals.

Environmental conditions for storage and transport:

Temperature: -10 °C to 70 °C

Humidity: Permissible relative humidity: 95 %, non-condensing (DIN IEC 60068-2-30)

4 Mounting and Installation



WARNING

- The installation may only be performed by specially trained personnel!
- Please carefully read the instructions in the "Operating Instructions DULCOMARIN® II, Part 1: Mounting and Installation" when mounting and installing the module!

NOTE

The terminal connection diagram is enclosed at the end of these supplementary instructions.

Carry out the CAN connection as described in the "Operating Instructions DULCOMARIN® II, Part 1, Mounting and Installation".

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Arrange power supply modules in main branch of CAN-bus DULCOMARIN® II DULCO-Net)

There is always one power supply module in the CPU (central unit).

Divide the number of pools by "2"; round off if there is a remainder:

Number of pools	Additional N or P modules	Number of of pools	Additional N or P modules
1	-	9	4
2	-	10	5
3	1	11	5
4	2	12	6
5	2	13	6
6	3	14	7
7	3	15	7
8	4	16	8

(Exception: Number of pools = 2)

The two light-emitting diodes LED 1 and LED 2 (see last illustration in Section 8 "Terminal connection diagram") indicate the load on the 24 V power supply for the CAN-bus.

Flash code LEDs, power supply monitoring DULCOMARIN® II (N and P module)

Operating status	LED 1 (H2, current)	LED 2 (H3, voltage)	Current	Remark
Normal	OFF	Green	< 1.1 A	Everything OK
Limit load	Red	OFF	> 1.1 A	Loop in a further power supply module
Overload/short-circuit	Red, flashing	OFF	> 1.35 A	Check wiring

5 Repairs



WARNUNG

- Only the fuse may be replaced by specially trained personnel.
 All other repairs may only be carried out by the customer service!
- The fuse may only be replaced after the module or device has been disconnected from the power supply and has been secured against re-activation (effect on plant?)
- System voltage may be present at the terminals P1 P4 even when the power supply has been switched off.
- Only use genuine fuses (Order no. 712030)
- · Otherwise, all general safety regulations apply.

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6 Technical data

Electrical data

Power relay output

for alarm signalling (P1): Contact type: changeover contact with varistors, interference-suppressed

Load rating: 250 VAC, 3 A max., 700 VA Contact lifetime: > 10⁵ switching cycles (at 3 A)

Power relay output for controller output signalling or limit value signalling (P2 - P4):

Contact type: make contact with varistors, interference-suppressed

Load rating: 250 VAC, 3 A max., 700 VA Contact lifetime: > 20 x 10⁶ switching cycles

Nominal voltage (X1): 90 - 25

90 - 253 VAC (50 / 60 Hz)

Maximum consumption: 500 mA at 90 VAC 180 mA at 253 VAC

Protection from internal with: miniature fuse 5 x 20 mm

630 mA, 250 V, slow

Electrical power consumed: 30 W

The power supply module with relais DXMaP is equipped with the 1A DC power supply unit,

24 VDC.

Environmental conditions

Storage temperature: -10...70 °C

Type of protection: IP 20

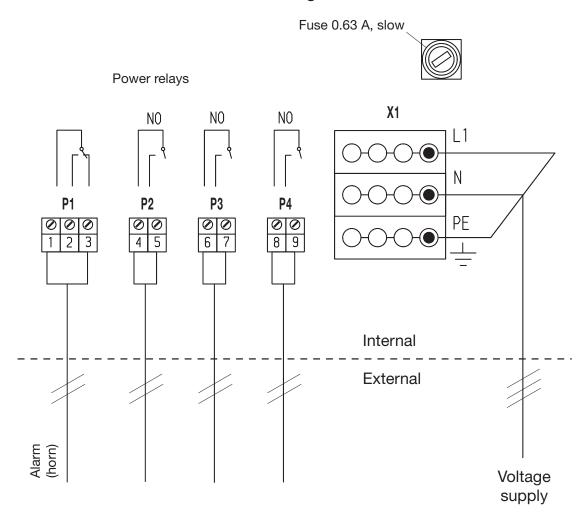
Climate: Permissible relative humidity: 95 %, non-condensing (DIN IEC 60068-2-30)

7 Terminal assignment

Description	Terminal designation	Terminal no.	Pole	Function
		1		Signal-horn (control)
Alarm relay	P 1	2		
		3		
		4		PWM acid (control)
Power relay 1	P 2			Solenoid valve (dulco®flex)
		5		PWM alkaline (control)
		6		PWM pH lowering
Power relay 2	P 3			PWM alkaline (control)
				(Control solenoid valve
				dulco®flex)
		7		
Power relay 3	P 4			Enabling UV plant
		8		PWM chlorine (control)
				PWM ORP (control)
		9		Enabling heater
Voltage supply	X 1	10	PE	
		11	N	
		12	L(1)	

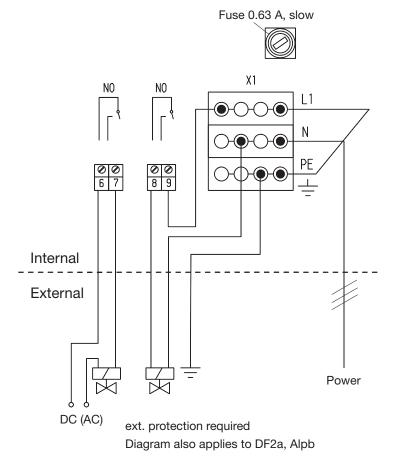
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8 Terminal connection diagram



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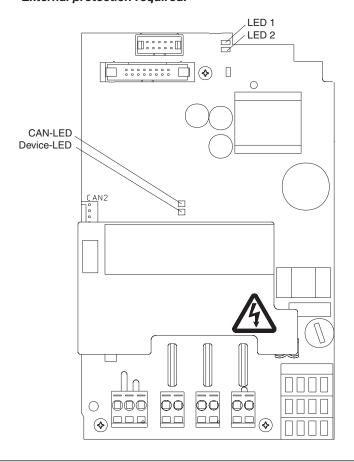
Example for the connection of a solenoid valve (or peristaltic pump DULCO®flex DF2a or motor dosing pump alpha)





IMPORTANT

External protection required!



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