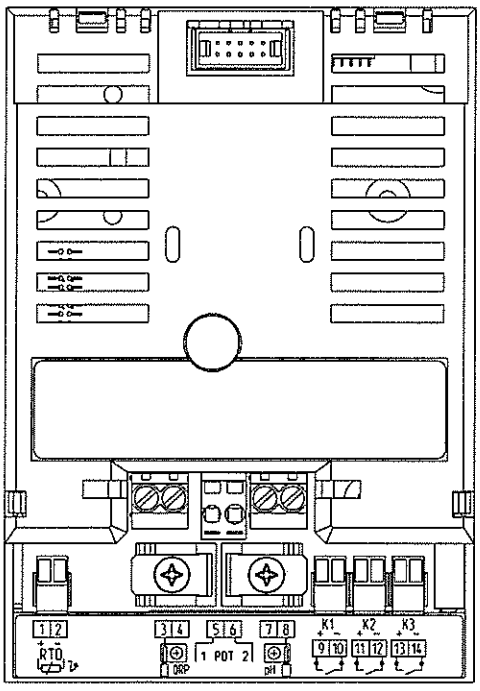
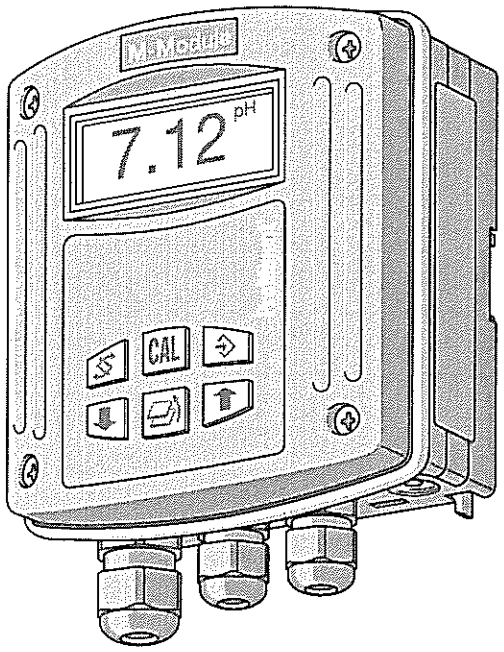
Supplementary Instructions

DULCOMARIN® II, M Module
(Measurement Module for pH, redox/ORP, temperature)
DXMaM: Connection





DXMa _____

Please enter the identcode of your module!

These supplementary instructions apply only in conjunction with the "Operating Instructions DULCOMARIN® II, Part 1: Mounting and Installation"!

Please carefully read these operating instructions before use! · Do not discard!
The operator shall be liable for any damage caused by installation or operating errors!

Imprint:
Supplementary Instructions
DULCOMARIN® II, M Module
(Measurement Module for pH, redox/ORP, temperature)
DXMaM: Connection
© ProMinent Dosiertechnik GmbH, 2004

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Identcode 4

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Terminal diagram 6

Identcode

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

DXMa | **Measurement module for DULCOMARIN® II, series DXM**

	Module:
M	M-module, measurement module: pH, ORP, temperature
	Type of mounting:
W	Wall mounting (IP 65)
H	Mounting rail (IP 20)
E	Retrofit module (installation module for DXCa, IP 20)
	Version:
0	With controls (only M module, mounting type W) [1]
2	Without controls
3	Without controls (only mounting type "E" and "H")
	Application:
S	Swimming pool (only M module)
	Language:
00	No controls [2]
DE	German
EN	English
ES	Spanish
FR	French
IT	Italian
	Approval:
01	CE mark

[1] only with Installation: "W"

[2] only with Version: 2, no operator control

DXMa **M** **W** **0** **S** **00** **01**

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").

About this module

The measurement module DXMaM provides the following functions to the DULCOMARIN® II e.g.:

- Measurement and control of the pH value
- Measurement and display (optional control) of the redox/ORP
- Measurement and display of the temperature of the sample water
- Monitoring of the sample water throughput

The measurement module DXMaM is equipped with the following inputs:

- 1 temperature input for Pt1000 (Pt100, automatic sensor detection)
- 2 sensor inputs for pH or redox/ORP measurement with equipotential bonding
- 3 digital inputs for pause, changeover of parameter sets, sample water monitoring

Mounting and Installation



CAUTION

- ***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" before carrying out any mounting and installation work!***

NOTE

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

Technical data

Electrical data

Pt1000/Pt100 input (RTD) (Kl. 1, 2):
Input range: -20 ... 150 °C
Accuracy: ± 0.5 °C
Representation: 0.1 °C

Sensor input (ORP) Kl. 3, 4) for redox/ORP:
Input resistance: > 10^{12} Ohm
All reference electrodes with diaphragm can be connected.
Input range: redox/ORP: -1200 mV ... +1200 mV
Accuracy: ± 0.5 % of the input range
Representation: 1 mV (0.01pH)
Connection of reference electrode through shield connection
Connection options for an liquid reference potential electrode

Sensor input (pH) (Kl. 7, 8) for pH:
Input resistance: > 10^{12} Ohm
Input range: pH: -1 ... 15 (0 ... 100 °C)
Representation: 0.01 pH
Further data as "Sensor input (ORP)".

Digital inputs (K1, K2, K3) (Kl. 9 – 14):
galvanically isolated among each other
Insulation voltage: 500 V
max. switch frequency: 2 kHz
Connectable contacts: mechanical relays
max. connectable cable length: 20 m

Environmental conditions

Storage temperature: -10...70 °C

Type of protection: IP 20 (within the housing DXM: IP 65)

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

Materials

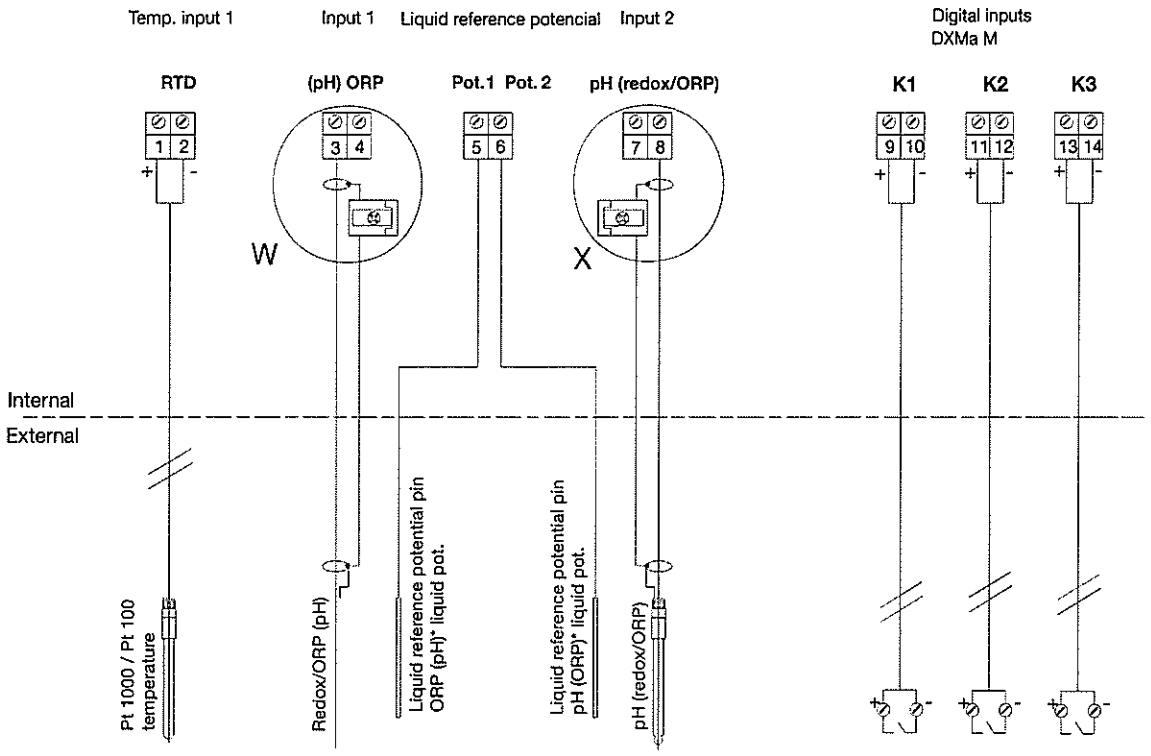
Housing: PPE-GF 10

Terminal assignment

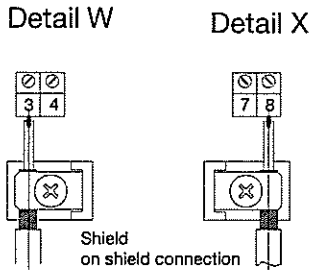
Description	Terminal designation	Terminal no.	Pol.	Function
Temp. input **Pt1000**/100	**RTD**	1	+	Pt1000/100 (temp. sensor)
		2	-	
pH/**ORP** input 1	**(pH) ORP**	3	Ref.	ORP sensor
		4	meas. sig.	
Liquid reference potential 1	**POT 1**	5		
Liquid reference potential 2	**POT 2**	6		pH sensor
pH/ORP input 2	**pH (ORP)**	7	Ref.	
		8	meas. sig.	
Digital input 1	**K 1**	9	+	Sample water (error)
		10	-	
Digital input 2	**K 2**	11	+	Pause control (backflushing)
		12	-	
Digital input 3	**K 3**	13	+	ECO!MODE
		14	-	

Terminal diagram

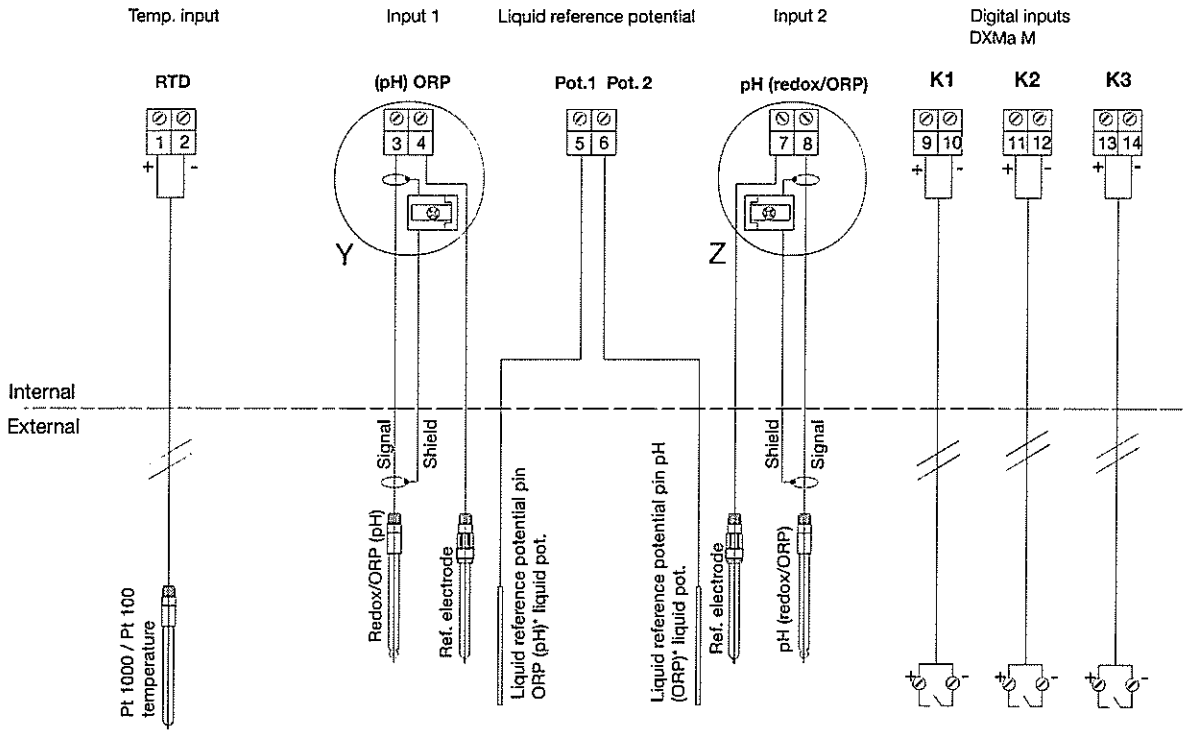
Terminal diagram combination probe

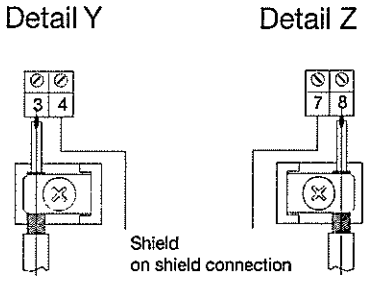


*The function "Liquid reference potential" must be activated in the software.

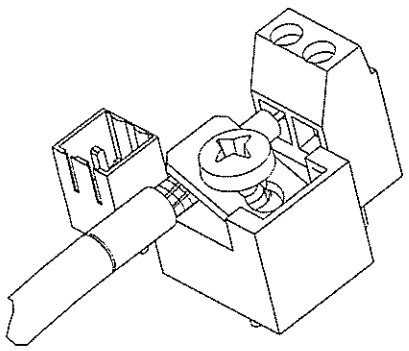


Terminal diagram two-probe measuring chain





*The function "Liquid reference potential" must be activated in the software.



3713_DXC

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