



DPM-IC2

CURRENT INPUT MODULE 2 X 0/4 ... 20 MA WITH POWER SUPPLY/ISOLATOR FEED-IN

The DPM IC2 current input module provides two 0/4 ... 20 mA current inputs for the DPM and thus enables to connect external pressure sensors via their current output.

General

Dimensions	144 x 144 x 53 mm
Weight	Approx. 0.5 kg
Enclosure material	Polycarbonate with 20 % glass fiber
Type of protection	IP 66 (not suitable for direct conduit connection).
Suitable for cable sheath diameter	4.5 - 10 mm or 9.0 - 13 mm

Ambient conditions

Temperature	Mounting/installation/maintenance	+ 5 °C ... + 40 °C (+ 41 ... +104 °F)
	Operation	- 20 °C ... + 55 °C (- 4 ... + 131 °F)
	Storage	- 25 °C ... + 65 °C (- 13 ... + 149 °F)
Relative humidity	Mounting/installation/maintenance	≤ 80 %
	Yearly average	≤ 90 %
	Dew formation	Possible
Site altitude	Max. 2000 m above sea level	

Meter safety

Applicable norms	<ul style="list-style-type: none"> - EN 61010-1 - UL 61010-1 - CAN/CSA C22.2#61010-1
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EMC product and system characteristics

EN 61326	<p>EMC requirements for electrical resources for control technology and laboratory use</p> <ul style="list-style-type: none"> - Resources for industrial areas, intended for indispensable operation - Interference emission limits for resources of class A
System lightning protection	Noticeably extended qualitative and quantitative protective characteristics as opposed to EN 61326
FCC, class A	

Electrical data

Nominal voltage	Max. 24 VDC via the DPM (for details, see the TECHNICAL DATA chapter of the DPM system operating manual)
Power consumption	0.2 W
Protective class	III

Terminal connections

Sensor Net	2
Current inputs (0/4 ... 20 mA)	2
Terminal type	Screw-type terminal strip, accessible by opening the lid
Terminal ranges	Solid wires: 0.2 ... 4.0 mm ² (AWG 24 ... 12) Flexible wires: 0.2 ... 2.5 mm ²
Line cross-section of cables carrying mains voltage	Europe: 1.5 ... 4.0 mm ² USA: AWG 14 ... 12
Cable feeds	4 cable glands M16 x 1.5 on the underside of the module

Current inputs

Measuring channels	2 (Physically separated from the DPM)
Physical input current range	0.0 ... 22.5 mA If this range is exceeded, the input switches itself off for approx. one minute as a protective measure
Allowed signal ranges	4 ... 20 mA
Allowed common-mode difference between the measuring channels	10 VDC, 20 VAC _{P-P}
Measuring uncertainty (precision)	< 0.2 % of the measured value ± 0.01 mA
Load	max. 250 Ohm