



MSystem

Communication

DPM-MC2

Card Description

DPM-MC2



micro  innovation

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Warning

No warranty claims will be recognised for faults arising from the improper handling of devices and modules.

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1 INTRODUCTION

1.1 AIM AND PURPOSE OF THIS DOCUMENT

This documentation is designed as a reference for connecting, commissioning and operating the DPM-MC2 communication card.

1.2 USE OF THE CARD

This can only be used in MICRO PANEL MC2 series devices which are provided with an appropriate slot.

The DPM-MC2 card is a PROFIBUS master. This development is based on the EN50170 standard.

The card must only be fitted and removed when the device is in a de-energized state.

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Function and Control LEDs

2 FUNCTION AND CONTROL LEDs**FRONT PANEL**

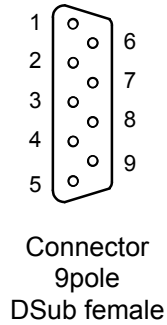
READY (yellow)	Lit Flashing cyclically Flashing irregularly Dark	CIF ready Bootstraploader active Hardware or system error Hardware fault
RUN (green)	Lit Flashing cyclically Flashing irregularly Dark	Communication running Communication stopped Missing or faulty configuration No communication
ERROR (red)	Lit Dark	PROFIBUS error No error
STATUS (yellow)	Lit Dark	Sends data or token No token

3 CONNECTOR ASSIGNMENT

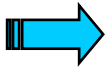
The plug connector and connector assignment comply with the Profibus standard (EN50170). Only the transceiver signals and the terminals with the power supply for line termination are provided.

Connector assignment

Pin no.	Signal	Description
1	nc	
2	nc	
3	RxD/TxD-P	Receive/Transmit-Data-P
4	CNTR-P	Control-P (Rep.Control)
5	DGND	Data Ground (Termination)
6	VP	Voltage-Plus (Termination)
7	nc	
8	RxD/TxD-N	Receive/Transmit-Data-N
9	nc	
Case	Shield	Cable shield



The power supply terminals DGND (0V, Pin 5) and VP (+5V, Pin 6) are only used for the power supply of the cable termination (Termination) and must not be used for anything else. The CNTR-P signal (Pin 4) is used in conjunction with a repeater.



**The bus segment must be terminated at both ends.
No more than 2 bus terminations must be activated for each bus segment!
At least one of the two bus terminations must be fed by the bus station!**

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Maintenance, repair, disposal

4 MAINTENANCE, REPAIR, DISPOSAL

Repairs

Repairs should only be carried out by the manufacturer or authorized repair centres. Please contact in this case your local MICRO PANEL dealer or the Technical Support at Micro Innovation. The warranty is not applicable if any modifications are made to the device that are not described in this document.

Transport

Only the original packaging must be used for transporting the device.

Disposal

Cards that are no longer used, must be properly disposed of or returned to the manufacturer or sales for their proper disposal.

5 TECHNICAL DATA

Profibus	Type Connection	Profibus, isolated Sub-D 9 pole female
Ambient conditions 1)	Operating climate	0...50°C, 10...95% rel. air humidity, non-condensing
	Storage climate	-20...60°C, 10...95% rel. air humidity, non-condensing
	Vibration	IEC68-2-6
	Shock: Fall test:	IEC68-2-27 IEC68-2-32
EMC (CE)1)		EN 61000-6-2, EN 610006-4 EN 61131-2
Safety 1)		EN 60950 UL 60950 (UL)
Product standards 1)		EN 50178, Electrical equipment for use in electrical installations EN61131-2, PLCs

1) This information refers to the entire Micro Panel.

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