

# Module MW 4

» Hardware module with 4 analogue inputs (for Wheatstone bridges)

## » OVERVIEW



Fig. MW 4

The **MW4** device is an analogue input module with 4 channels and can only be used in combination with the aditec controllers **MS 120, MS 220, MIC 900** and **MIC 3000**. The CAN-BUS interface is used for **programming and communication with the basic unit**. The module is designed for mounting on a **DIN rail** in control cabinets.



The MW4 module can only be used in combination with the aditec controllers MS 120, MS 220, MIC 900 and MIC 3000!

## » FEATURES

- **4x analogue inputs for Wheatstone bridges** with performance compensation, e.g. for weight measurement with Z6 load cells from HBM
- **1x CAN interface** for communication with the basic unit and for programming
- The module can be connected **centralised** (no wiring needed for communication) or **decentralised** (via cable connection) to the basic unit MS 120, MS 220, MIC 900 or MIC 3000 in separate control cabinets.
- With connection of **max. 2 MW4 modules** to the basic units **MS 120, MS 220, MIC 900** and **MIC 3000** there are up to **8 analogue inputs for Wheatstone bridges** available.

## » LED STATUS DISPLAY

- **LED 1=** Power (lights up green)
- **LED 2=** Operation (lights up green)
- **LED 3=** Communication (flashes green)
- **LED 4=** Error (flashes red)



## » TECHNICAL DATA

### General data

Dimensions	22,5m x 104mm x 106,5mm (W x H x D)	Without connection elements
Material	Robust stainless steel housing (1.4016)	Ideal for use in the food industry
Cooling	Passive (without fan)	
Own weight	Ca. 250 g	
Operating temperature	-20 to +65°C	
Storage temperature	-50 to +75°C	
Air humidity	35% - 80% (non-condensing)	
Atmosphere	Non-aggressive gases	
Protection class	IP20 according to EN 60529	

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Electrical data		
Power supply	24V DC +25% -20%	
Residual ripple	5%	
Current consumption	Max. 50mA	
Power consumption	Max. 1,5W	When all inputs are fully used.
External power supply 5V*	Max. 80mA Last	
Electrical safety	According to DIN EN 61010-1 Overvoltage category III	
Electromagnetic compatibility	Emitted interference: Class A for industrial use Interference immunity: For industrial requirements	According to DIN EN 61326-1
Connections	Removable terminals in push-in technology (spring terminals)	Min. 0,14 mm <sup>2</sup> up to max. 1,5 mm <sup>2</sup> Wire cross-section with 10mm wire end sleeve
Wire cross-section Braid with wire end sleeve Single wire flexible or fixed	Min. 0,14 mm <sup>2</sup> max. 1,0 mm <sup>2</sup> Min. 0,14 mm <sup>2</sup> max. 1,5 mm <sup>2</sup>	Stripping length 11 mm
4x analogue inputs		
E1 - E4 (for measuring weight, pressure)	- Wheatstone bridge - Nominal sensitivity 1...200mV / V - Input resistance > 250Ω	<b>Expandable to a total of 8 Wheatstone-inputs via max. 2 additional modules MW4</b> in connection with the basic units MS120, MS 220, MIC 900 or MIC 3000.
Galvanic isolation		
Mains input 24V DC	2,5 kV	
Analogue inputs	3,75 kV	

## » DIMENSIONS / CONNECTION DIAGRAM

