Module MW 4

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



» **OVERVIEW**



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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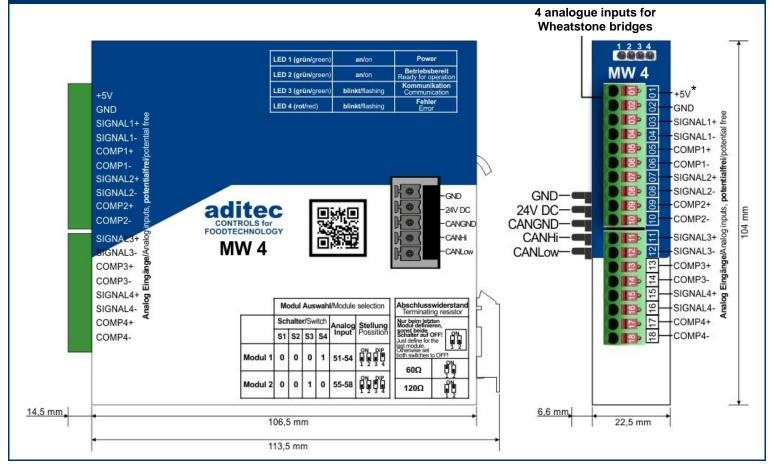
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Electrical data			
Power supply	24V DC +25% -20%		
Residual ripple	5%		
Current consumption	Max. 50mA		
Power consumption	Max. 1,5W	When all inputs are fully used.	
External power supply 5V*	Max. 80mA Last		
Electrical safety	According to DIN EN 61010-1 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 mm² up to max. 1,5 mm² 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 ² max. 1,0 mm ² Min. 0,14 mm ² max. 1,5 mm ²	Stripping length 11 mm	
4x analogue inputs			
E1 - E4 (for measuring weight, pressure)	 Wheatstone bridge Nominal sensitivity 1200mV / V Input resistance > 250Ω 	Expandable to a total of 8 Wheatstone-inputs via max. 2 additional modules MW4 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



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