



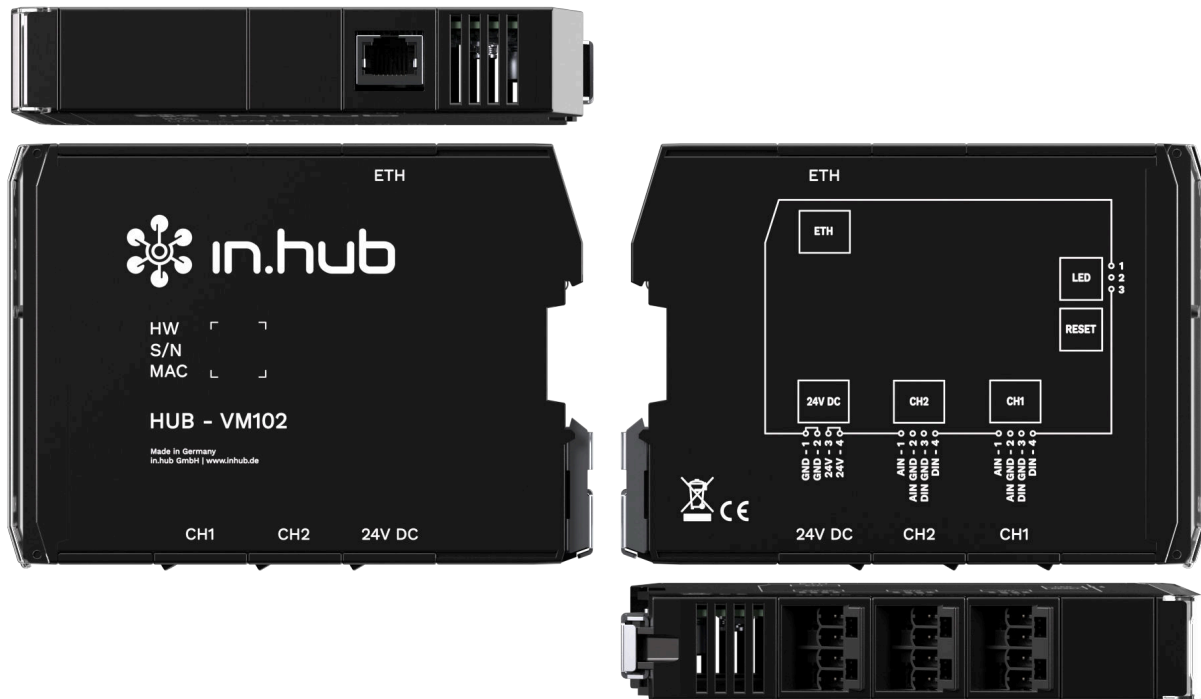
HUB-VM102

Technical data sheet

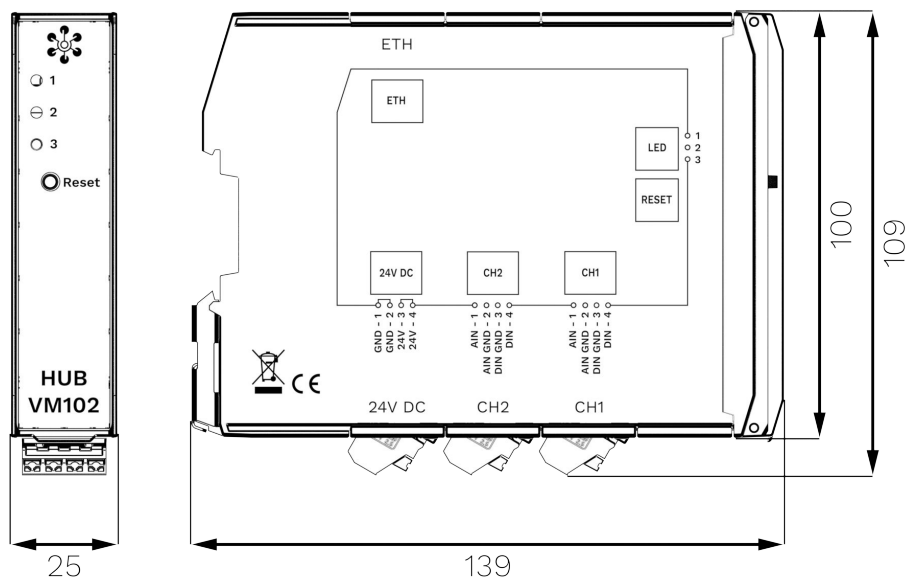
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Views of the HUB-VM102

Device views



Schematic diagram



Dimensions of the HUB-VM102 in mm

Technical data

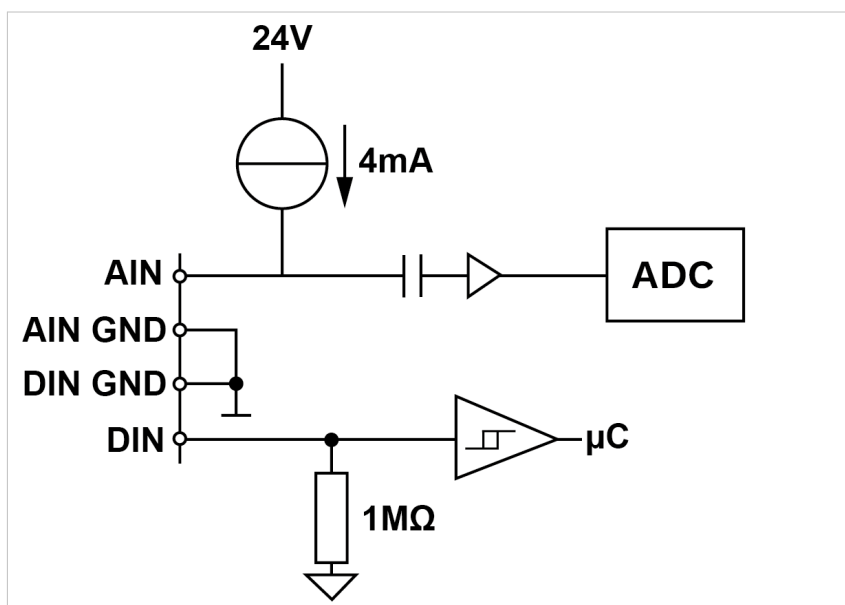
Data	
Power supply	24 V DC \pm 10 %
Current consumption	~130 mA
Microcontroller	166 MHz, 32 Bit ARM Cortex M7
Storage	16 MB
Data interfaces	Ethernet: 100 Mbit/s 3× status LEDs Backplane bus
Connections for peripheral devices	2× analogue input for IEPE vibration and acoustic sensors 2× digital input (max. 30 V and max. 10 kHz)
Protocols	MQTT client Modbus TCP/IP server
Housing	Plastic (polyamide), black, flammability class UL 94 V0
Protection class	IP20
Dimensions	139 mm × 100 mm × 25 mm
Weight	142 g

Ambient conditions	
Temperature range	Storage: -40°C to 85°C Operation: 0°C to 50°C
Humidity	Storage: 10% to 95% RH, non-condensing Operation: 20% to 90% RH, non-condensing
Operating altitude	Max. 2,000 m above sea level

Specification of the CH1 and CH2 interface

Digital input DIN	
Switching threshold	between 1 V and 12 V (2.5 V default) 0.5 V hysteresis
Input resistance	1 M Ω
Bandwidth	10 kHz
Permissible input voltage range	-3 to 30 V

Analogue input AIN	
Function	Connection for IEPE-compliant sensors for vibration monitoring
Connection	One IEPE sensor per channel; data can be recorded synchronously
Power supply for IEPE sensors	~4 mA and monitoring of the IEPE voltage
Maximum AC input level	6 V _{eff}
IEPE channel bandwidth	0.5 Hz to 10 kHz
ADC sampling frequency	48 kHz
ADC resolution	24 bit



Circuit diagram of the CH interface (CH1 and CH2 are identical)

Backplane bus specification

Backplane bus	
Voltage on the backplane bus	Voltage of the power supply unit minus 0.5 V Switchable in the signals of the master gateway
Communication	Modbus RTU
Max. number of additional modules on one master gateway	3

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