

HART multiplexer - MACX MCR-S-MUX - 2865599

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HART Multiplexer for online configuration and diagnostics of HART-compatible field devices, as well as for continuous documentation of process variables and states with a PC or management system for mounting on NS 35/7.5 or NS 32

Why buy this product

- Supports online configuration and diagnostics for the connected HART-compatible field devices
- Communication via software tool (e.g., HART OPC server) using RS-485 interface
- Up to 128 HART multiplexers on one PC interface
- 32 HART channels per multiplexer
- Continuous documentation of process variables and states
- Electrical isolation between auxiliary voltage, RS-485 bus, and the HART channels
- HART field devices are accessed parallel to the transmission of the measurement signal without affecting measured value processing
- HART field devices connected via universal HART connection boards; direct connection if processing non-Ex signals, with separate Ex i signal isolator connected upstream if processing Ex signals
- Power supply via HART connection board



Key commercial data

Packing unit	1 pc
GTIN	4 046356 153898
Weight per Piece (excluding packing)	222.9 g
Custom tariff number	85176200
Country of origin	Germany

Technical data

Dimensions

Width	35.2 mm
Height	99 mm
Depth	114.5 mm

Ambient conditions

Ambient temperature (operation)	-20 °C ... 60 °C
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Technical data

Ambient conditions

Ambient temperature (storage/transport)	-40 °C ... 80 °C
Max. permissible relative humidity (operation)	≤ 95 % (non-condensing)

Field devices interface (HART)

Channels	16 or 32; adjustable using a switch
Connection method	Flat-ribbon cable, 14-pos. (inclusive)
Signal	HART FSK
HART specification	HART Field Communication Protocol Rev. 6.0 (downward compatible up to Rev 4.0); FSK Physical Layer Specification (Rev. 8.1)
Data transmission display	Two yellow "Tx" and "Rx" "HART" LEDs
Display error	Red "ERR" LED (flashes in case of an error in the HART bus)

RS-485 interface

Connection method	D-SUB-9 female connector
Signal	RS-485
Data flow control/protocols	Compatible with OPC HART server, PDM, PRM, and FDT/DTM
Number of HART multiplexers per bus segment	Max 31
Address setting	0...127; using a rotary switch at the front
Data rate	9600 / 19200 / 38400 / 57600 [bps]; via rotary switch at the front
Transmission length	≤ 1200 m
Display	Two yellow "Tx" and "Rx" "RS-485" LEDs

General data

Supply voltage	24 V DC
Supply voltage range	18 V ... 31.2 V
Typical current consumption	55 mA
Nominal power consumption	1.35 W
Operating voltage display	Green "PWR" LED
Undervoltage monitoring	Yes (no faulty devices / output states)
Galvanic isolation of HART signal/RS-485	350 V AC
Galvanic isolation of HART signals between each other	100 V DC (Capacitive)
Galvanic isolation of HART signal/supply	350 V AC
Galvanic isolation of RS-485/supply	350 V AC
Error monitoring	Processor error: The "PWR" LED flashes; error in the HART communication: the "ERR" LED flashes
Conformance	CE-compliant

Classifications

eCl@ss

eCl@ss 4.0	27210107
eCl@ss 4.1	27210107
eCl@ss 5.0	27210107

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Classifications

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eCl@ss 5.1	27210107
eCl@ss 6.0	27210107
eCl@ss 7.0	27210107
eCl@ss 8.0	27210107

ETIM

ETIM 2.0	EC000310
ETIM 3.0	EC000310
ETIM 4.0	EC000310
ETIM 5.0	EC000310

UNSPSC

UNSPSC 6.01	30211506
UNSPSC 7.0901	39121008
UNSPSC 11	39121008
UNSPSC 12.01	39121008
UNSPSC 13.2	39121008

Accessories

Accessories

Data plug

D-SUB bus connector - SUBCON-PLUS M1 - 2761826



D-SUB connector, 9-pos., male connector, two cable entries < 35°, bus system: Modbus, Modbus Plus, BITBUS, ARCNET, MULT/MININET (B&R), SYSTEM 2003 (B&R), P-NET, pin assignment: 1, 2, 3, 5, 6, 8 to two screw connection terminal blocks

Interface converter

Interface converter - PSM-ME-RS232/RS485-P - 2744416



Interface converter, for converting RS-232 (V.24) to RS-422 (V.11) and RS-485, with electrical isolation, 2 channels, rail-mountable

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Accessories

Interface converter - PSM-ME-RS485/RS485-P - 2744429



Repeater, for potential separation and range increase in RS-485 2-wire bus systems, 3-way isolation, rail-mountable

Interface converters - FL COMSERVER UNI 232/422/485 - 2313452



Second generation FL COMSERVER UNI..., serial device server for converting a serial 232/422/485 interface to Ethernet, supports TCP, UDP, Modbus gateway, and PPP applications, incl. COM port redirector software and user documentation

Multiplexer

HART transfer board - MACX MCR-S-MUX-TB - 2308124



The HART transfer board is used to operate the MACX-MCR-S-MUX HART multiplexer. The signals from the HART-compatible signal converters are applied to the terminal strip of the transfer board where they are then transmitted to the multiplexer via an FLK.

Drawings

Dimensioned drawing

