

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (http://phoenixcontact.com/download)



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

Product Features

- 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 |
|--------------------------------------|----------|
| Weight per Piece (excluding packing) | 249.2 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



Technical data

Ambient conditions

| Ambient temperature (operation) | -20 °C 60 °C |
|--|-------------------------|
| 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 | 0127; 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 |

Standards and Regulations



Technical data

Standards and Regulations

| Conformance | CE-compliant CE-compliant |
|-------------|---------------------------|
| | · |

Classifications

eCl@ss

| eCl@ss 4.0 | 27210107 |
|------------|----------|
| eCl@ss 4.1 | 27210107 |
| eCl@ss 5.0 | 27210107 |
| eCl@ss 5.1 | 27210107 |
| eCl@ss 6.0 | 27210107 |
| eCl@ss 7.0 | 27210107 |
| eCl@ss 8.0 | 19179290 |
| eCl@ss 9.0 | 19179290 |

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 |

Approvals

Approvals

Approvals

EAC / EAC

Ex Approvals



Approvals

Approvals submitted

Approval details

EAC

EAC

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

Repeater - 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



Accessories

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

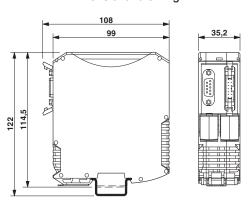
HART transfer board - MACX MCR-S-MUX-TB - 2308124



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

Dimensional drawing



Phoenix Contact 2016 @ - all rights reserved <code>http://www.phoenixcontact.com</code>

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Phoenix Contact: 2865599