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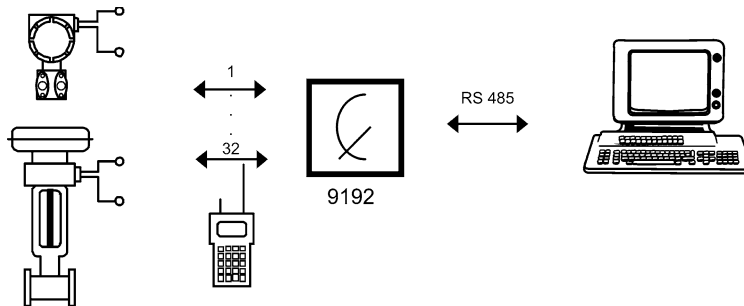
HART-Multiplexer Type 9192

- Used for digital connection of up to 32 HART-capable field devices to an HART management system
- Compatible to Cornerstone, AMS, PDM, PRM etc.
- 32 HART channels per multiplexer
- Up to 128 HART-Multiplexer on one PC interface
- Up to 4096 HART field devices
- Galvanic isolation between power supply, RS 485 bus and HART channels
- Installation possible in Zone 2 and Div. 2
- Can be used up to SIL 3 (IEC 61508)

	Zones					
	0	1	2	20	21	22
Ex i interfaces						
Installation in			X			X



Basic function: multiplexer for HART field devices, 32 channels. The HART-Multiplexer type 9192 is used for digital connection of up to 32 HART-capable field devices, such as transmitters and regulating valves, to a PC. The PC communicates with the HART-Multiplexer via an RS 485 bus. The software Cornerstone, AMS, PDM or PRM allows configuration and diagnostics of all connected HART-capable field devices, plus continuous documentation of the process variables and status.



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Selection Table

Version	Channels	Order number
HART-Multiplexer type 9192	32 channels	9192/32-10-10
incl. 14-core connection cable for pac-carrier type 9195 or HART connection board type 9196		

Technical Data

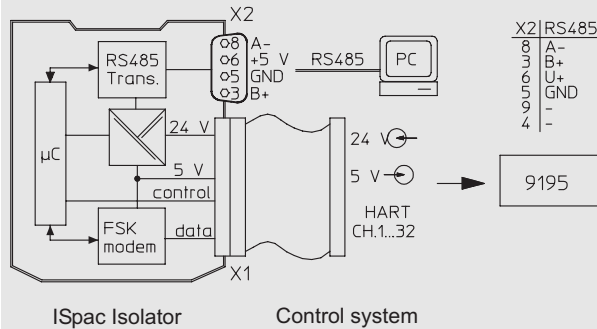
Certificates	BVS 03 E 213 X	
Other certificates	USA (FM), Canada (CSA), Russia (CTB), Brazil (UL do Brasil), Shipping (DNV)	
Explosion protection	⊕ II 3 G EEx nAC II T4	
Installation	In Zone 2, Div. 2 and in the safe area	
Power supply	(Supply via pac-carrier type 9195 or HART connection board type 9196)	
	Nominal voltage U_N	24 V DC
	Voltage range	18 V ... 31.2 V
	Residual ripple	< 3,6 V _{pp}
	Nominal current (24 V)	55 mA
	Power consumption	1.35 W
	Indication	LED green „PWR“
	Undervoltage monitoring	yes (no faulty module / output states)
Galvanic isolation	Test voltage under regulations EN 50178	
	HART signal to RS 485	350 V AC
	HART signals to each other	100 V DC capacitive
	Power supply to HART signal	350 V AC
	Power supply to RS 485	350 V AC
Field device interface (HART)	Channels	16 or 32, setting via switch
	Connection	Ribbon cable, 14-pole (inclusive)
	Signal	HART FSK
	HART Specification	HART Field Communication Protocol Rev. 6.0 (downwards compatible to Rev. 4.0); FSK Physical Layer Specification (Rev. 8.1)
	Average influence on analog signals	< ± 0,1 %
	Indication data transmission	2 LED yellow „Tx“ and „Rx“ „HART“
	Error detection	LED red „ERR“ (flashes at error on HART bus)
RS 485 interface	Number	1
	Connection	Sub-D socket, 9-pole
	Signal	RS 485
	Protocol	compatible to Cornerstone, AMS, PDM and PRM
	Number of HART-Multiplexer per bus segment	maximum 31
	Address setting	0 ... 127; via front-side rotary switch
	Transmission speed	9,600; 19,200; 38,400; 57,600 [bit/s]
	Settings	≤ via front-side rotary switch
	Line length	1200 m
	Indication	2 LED yellow „Tx“ and „Rx“ „RS 485“
Fault monitoring	Detection and messaging	Processor error: LED „PWR“ flashes HART communication disturbed: LED „ERR“ flashes
	Settings	none
Electromagnetic compatibility	Tested under the following standards and regulations: EN 61326-1 Use in industrial environment; NAMUR NE 21	
Ambient conditions	Ambient temperature	- 20 °C ... + 60 °C / + 70 °C (see instructions)
	Storage temperature	- 40 °C ... + 80 °C
	Relative humidity (no condensation)	≤ 95 %

Technical Data

Connection diagram

Safe area

Division 2
Zone 2



Mechanical data

Weight
Mounting type
Mounting position
Casing protection class
Connector protection class
Casing material
Fire protecting class (UL-94)

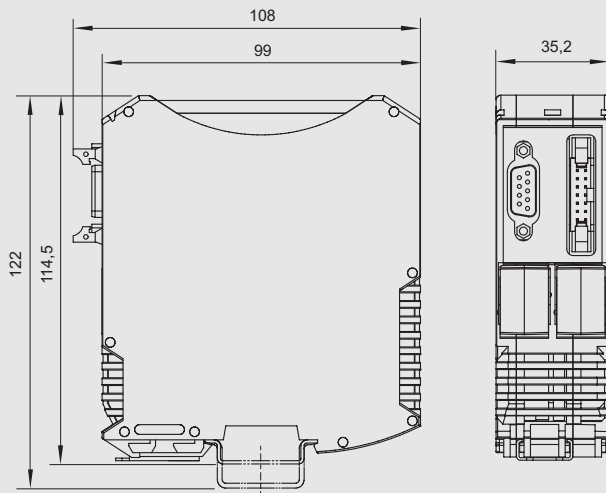
approx. 170 g
on DIN rail, EN 50022 (NS35/15; NS35/7.5)
horizontal or vertical
IP 30
IP 20
PA 6.6
V0

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Accessories and Spare Parts

Designation	Description	Order number
Fieldbus isolating repeater	<ul style="list-style-type: none"> • Device for installation in safe areas or Zone 2 • For fieldbusses with RS 485 interface • Suitable for Profibus DP, Modbus, R. STAHL ServiceBus • Interface to automation system RS 232, RS 422, RS 485 • Automatic setting of transmission speed for Profibus DP • Adjustable baud rate (1.2 kBit/s up to 1.5 MBit/s) • Power supply 24 V AC/DC • Further information see data sheet type 9185/12 	9185/12-45-10s
pac-Carrier	8 slots, HART	9195/08H-...-...
	16 slots, HART	9195/16H-...-...
Connection board	for none Ex-applications, HART, 16 channels	9196/16H-XX0-...

Dimension drawing (all dimensions in mm) - subject to alterations



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We reserve the right to make alterations to the technical data, weights, dimensions, designs and products available without notice. The illustrations cannot be considered binding.