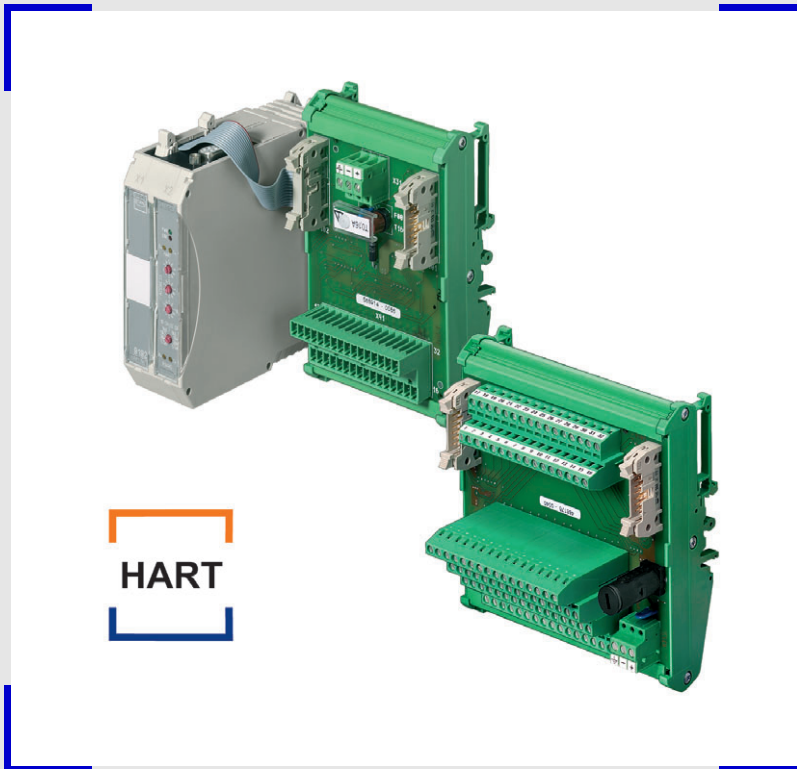


HART Termination Board

Series 9196



- > Cost and space saving system for HART
- > Processing of 4 ... 20 mA Non-Ex signals
- > Simple installation on DIN rail

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07858E00

The combination of the HART termination board type 9196 and the HART multiplexer type 9192 allows to establish the HART transmission between field devices and HART management system. The board are open for a broad range of applications. The processed 4 mA ... 20 mA signals are non-Ex signals. The conversion between I.S. and non I.S. has to be established by additional isolators. The solution could be of course used for completely Non-Ex applications as well.

		ATEX / IECEx						NEC 505						NEC 506						NEC 500					
		0	1	2	20	21	22	Zone		Class I		Class II		Class III		Division		Class I		Class II		Class III			
Zone								0	1	2	20	21	22	0	1	2	20	21	22	1	2	1	2	1	2
Installation in				x			x			x						x			x			x			x

WebCode 9196A

HART Termination Board

Series 9196



Selection Table

Version	Channels	Application	Signal to the automation system	Additional output for recorder, etc.	Order number	Weight kg
HART Termination Board Series 9196	16	2-, 3- or 4-wire transmitter	1 ... 5 V	yes	9196/16H-XX0-01c	0.150
		2-, 3- or 4-wire transmitter, positioner	4 ... 20 mA	no	9196/16H-XX0-03c	0.150
			1 ... 5 V	no	9196/16H-XX0-04c	0.518
HART-Multiplexer Series 9192	32	--	--	--	9192/32-10-10	0.100

32 channels if two HART Termination Boards Series 9196 are connected to HART Multiplexer Series 9192

Explosion Protection

Global (IECEX)	
Gas	IECEX BVS 10.0042X Ex nA IIC T4 Gc
Europe (ATEX)	
Gas	BVS 03 E 213 X ⊕ II 3G Ex nA IIC T4 Gc
Certifications and certificates	
Certificates	IECEX, ATEX, Brazil (INMETRO), Canada (CSA), Kazakhstan (GOST K), Russia (GOST R), Ukraine (TR), USA (FM)
Ship approval	DNV
Further parameters	
Installation	in Zone 2, Div. 2 and in the safe area
Further information	--

HART Termination Board

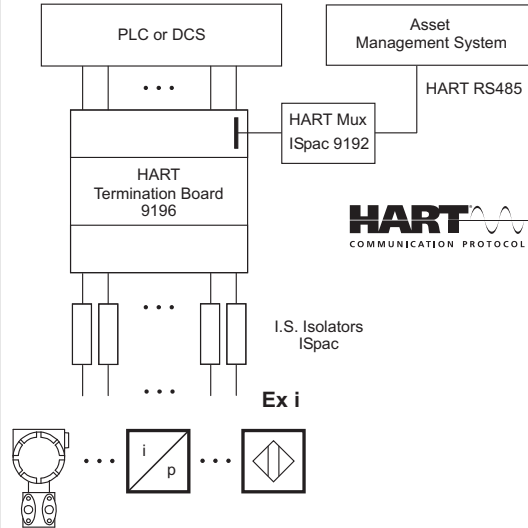
Series 9196



Technical Data

Electrical data

Auxiliary power	
Nominal voltage U_N	24 V DCV DC
Voltage range	19 ... 31.2 V
Residual ripple within voltage range	$\leq 3.6 V_{SS}$
Polarity reversal protection	yes
System configuration	



Connection isolators / Non-Ex field devices	9196/...-01c, 9196/...-02c, 9196/...-04c 9196/...-03c	via integrated screw terminal via detachable terminal, connected in parallel to the field device / PLC; in or output
Connection automation system	9196/...-01c, 9196/...-02c, 9196/...-04c	via integrated screw terminal
Electromagnetic compatibility	Tested under the following standards and regulations: EN 61326-1 (Use in industrial environment) NAMUR NE 21	

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Ambient temperature

Ambient temperature	-20 ... +70 °C Observe operating instructions.
Storage temperature	-40 ... +80 °C
Relative humidity (no condensation)	$\leq 95 \%$

Mechanical data

Mounting type	on DIN rail (NS35/15, NS35/7.5)
Mounting orientation	horizontal or vertical
Type of protection	
Enclosure	IP00
Terminals	IP20
Enclosure material	PA 6.6
Fire resistance (UL-94)	V0

HART Termination Board Series 9196

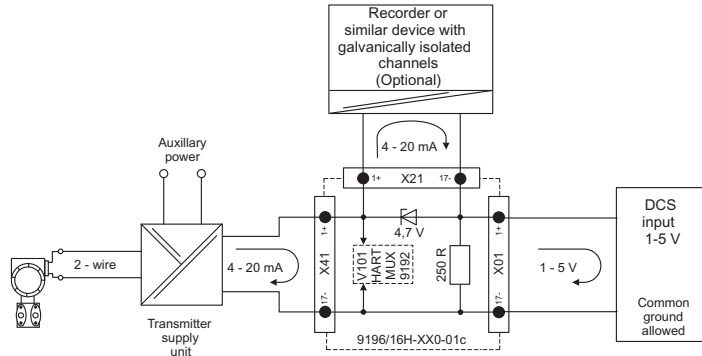


Technical Data

Electrical connection

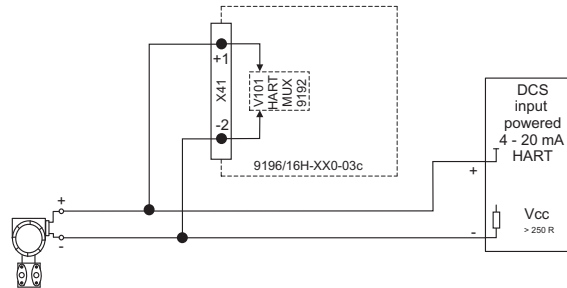
Connection diagram

9196/...-01c

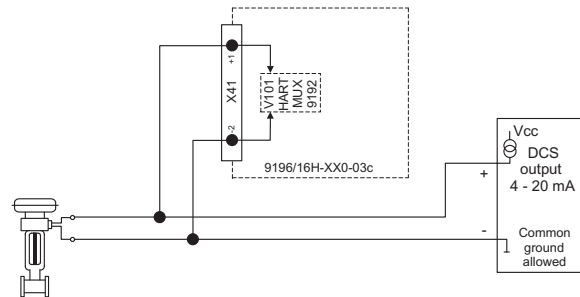


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9196/...-03c

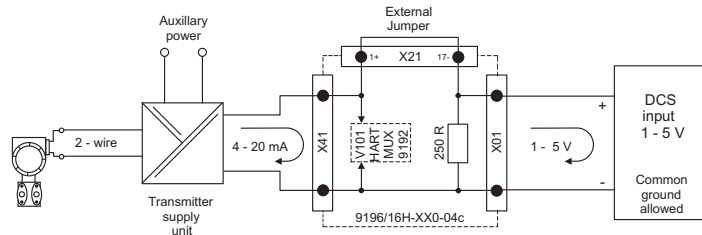


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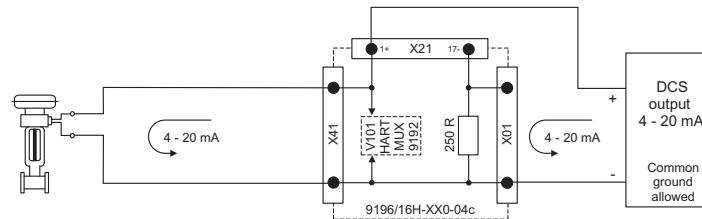


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9196/...-04c



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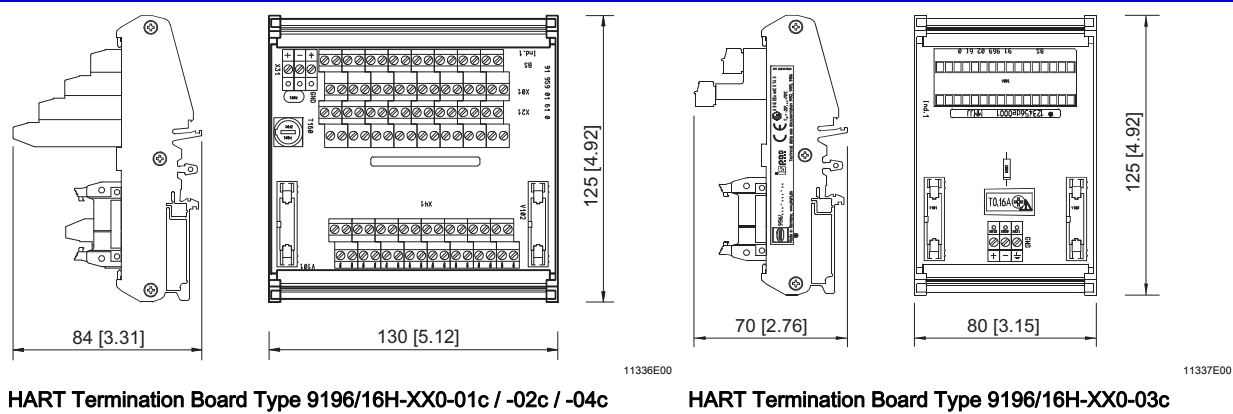
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HART Termination Board

Series 9196



Dimensional Drawings (All Dimensions in mm / inches) - Subject to Alterations



HART Termination Board Type 9196/16H-XX0-01c / -02c / -04c

HART Termination Board Type 9196/16H-XX0-03c

Accessories and Spare Parts

Designation	Description	Art. no.	Weight kg
Screw terminal	16 poles, horizontal wire connection	112992	0.001
	16 poles, vertical wire connection	112993	0.001
	Detachable terminals for the connection of the HART Termination Board type 9196/.....-03c. Two terminals per board required.		

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

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