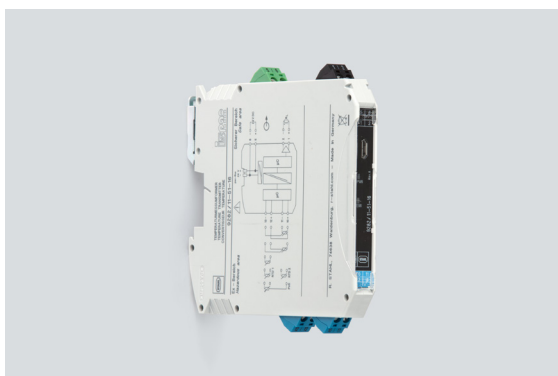




- Ex i temperature transmitter, can be configured for virtually any common sensor type
- Slim design saves space – just 12.5 mm wide
- For use up to SIL 2 (IEC/EN 61508)

A3

MY R. STAHL 9282A



The Series 9282 temperature transmitters for Ex i field circuits are used to connect temperature sensors and potentiometers. The devices are easy to configure for virtually any sensor type by means of software. These sensor types include Pt100 sensors, thermocouples and potentiometers. The devices feature three-way galvanic separation.

	IECEX / ATEX					
Zone	0	1	2	20	21	22
Ex interface	•	•	•	•	•	•
Installation in			•			

	NEC® 500 CE Code Appendix J					
	Class I		Class II		Class III	
Division	1	2	1	2	1	2
Ex interface	•	•	•	•	•	•
Installation in		•				

	CE Code Section 18					
	NEC® 505 Class I			NEC® 506		
Zone	0	1	2	20	21	22
Ex interface	•	•	•			
Installation in			•			

Selection Table

Number of channels	1					
Signal types	SIL	Connection type	Product Type	Art. No.	Weight	
RTD, potentiometer	2	Screw terminal	9282/11-51-16s	261452	170 g	
		Spring clamp terminal	9282/11-51-16k	261454	170 g	
Thermocouple, mV source	2	Screw terminal	9282/12-51-16s	261453	175 g	
	–	Spring clamp terminal	9282/12-51-16k	261455	175 g	

The 9282/12-51-16 comes supplied with a Pt100 as cold junction compensation, for mounting on the terminal.

Parameterisation ex works optionally available for all variants. Part No. 299646

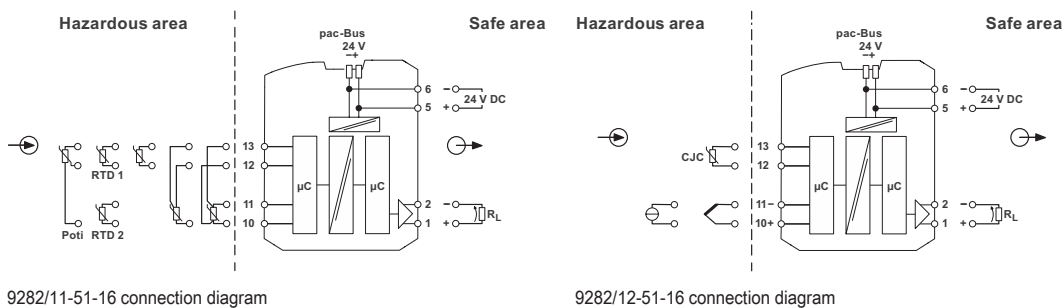
Technical Data

Variant	9282/11-51-16	9282/12-51-16
Explosion Protection		
IECEX gas explosion protection	Ex ec ic [ia Ga] IIC T4 Gc	Ex ec ic [ia Ga] IIC T4 Gc
IECEX dust explosion protection	[Ex ia Da] IIIC	[Ex ia Da] IIIC
IECEX firedamp protection	[Ex ia Ma] I	[Ex ia Ma] I
ATEX gas explosion protection	⊕ II 3 (1) G Ex ec ic [ia Ga] IIC T4 Gc	⊕ II 3 (1) G Ex ec ic [ia Ga] IIC T4 Gc
ATEX dust explosion protection	⊕ II (1) D [Ex ia Da] IIIC	⊕ II (1) D [Ex ia Da] IIIC
ATEX firedamp protection	⊕ I (M1) [Ex ia Ma] I	⊕ I (M1) [Ex ia Ma] I
Certificates	ATEX (IBE), Canada (UL), IECEx (IBE), India (PESO), Korea (KTL), SIL (TUN), USA (UL)	ATEX (IBE), Canada (UL), IECEx (IBE), India (PESO), Korea (KTL), SIL (TUN), USA (UL)
Ship approval	DNV	DNV

Technical Data

Variant	9282/11-51-16	9282/12-51-16
Safety Data		
Max. voltage U_e	6 V	6 V
Max. current I_e	16.8 mA	16.8 mA
Max. power P_e	25.2 mW	25.2 mW
Safety-related max. voltage	253 V	253 V
Auxiliary Power		
Auxiliary power	24 V DC	24 V DC
Input		
Input thermocouple	—	J, K, E, R, S, T, B, N (IEC 584), C, D (ASTM), U, L (DIN 43710), L, A1, A2, A3, M (GOST 8.585)
Input RTD	Pt 50, Pt 100, Pt 200, Pt 500, Pt 100S, Pt 500S, Ni 100, Ni 500, Cu 50, Cu 53	—
Input resistance temperature detector (RTD) Connection type	2-, 3-, 4-wire connection	—
Potentiometer input	Up to 50 k Ω	—
Output		
Output	0/4 to 20 mA active/source	0/4 to 20 mA active/source
Load resistance R_L	0 ... 600 Ω	0 ... 600 Ω
Ambient Conditions		
Ambient temperature	-40 °C ... +70 °C	-40 °C ... +70 °C
Storage temperature	-40 °C ... +80 °C	-40 °C ... +80 °C
Mounting / Installation		
Mounting type	DIN rail NS35/15, NS35/7.5	DIN rail NS35/15, NS35/7.5

Technical Drawings – Subject to Alterations



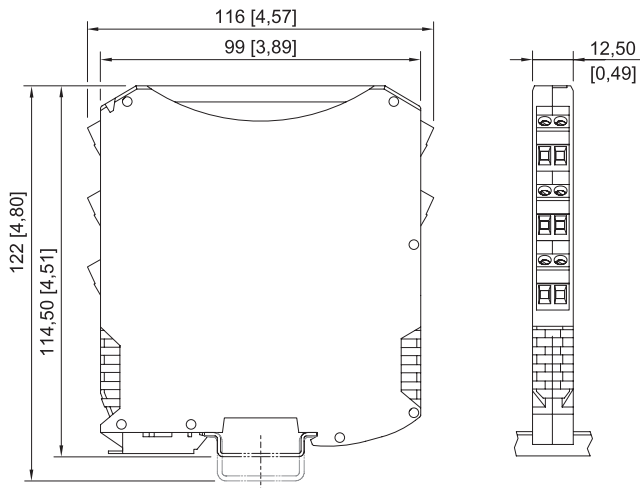
Accessories

Figure	Description	Art. No.	Weight
9282 Parameterisation			
	Parameterisation ex works optionally available for all variants.	299646	-
External reference junction			
	External reference junction for 2 x thermocouple (1 x Pt100 for 2-, 3- or 4-wire connection) integrated into the 4-pin terminal block. Mounted on a DIN rail.	160675	30 g

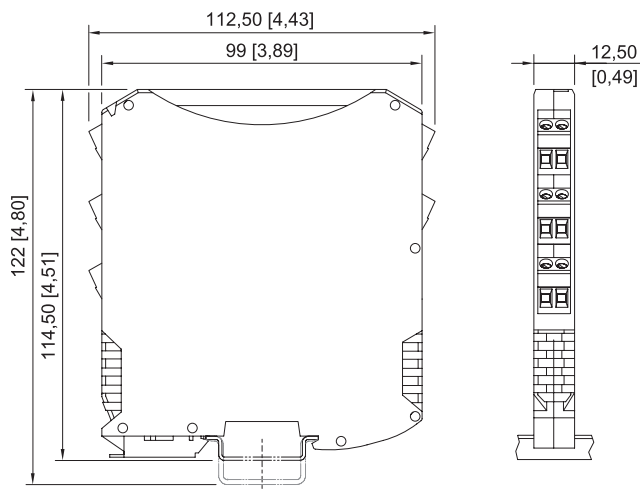
Accessories

Figure	Description	Art. No.	Weight
Parameterising adaptor			
	Used for parameterisation and diagnostics of Series 9282 ISpac isolators. Interface with the PC: USB Scope of delivery: Adaptor and cable (software is available to download online at r-stahl.com , MY R. STAHL: 9282A)	261507	160 g

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



ISpac Series 9260, 9270, 9275, 9276, 9282 with spring clamp terminal



ISpac Series 9260, 9265, 9270, 9275, 9276, 9282 with screw terminal