



- Ex i temperature transmitter, can be configured for virtually any common sensor type
- Broad range, including variants with signal conversion and trip amplifier function
- Can be used up to SIL 2 (IEC/EN 61508)

WebCode 9182A



9182 series Ex i temperature transmitters for field circuits can be used to connect temperature sensors and potentiometers. They are easy to configure for virtually any sensor type by means of software or a DIP switch. These sensor types include Pt100 sensors, thermocouples and potentiometers. Variants with a trip amplifier function allow the input signal to be analysed using two independent contacts.

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

	NEC 505 Class I			NEC 506		
Zone	0	1	2	20	21	22
Ex interface	•	•	•			
Installation in			•			•






	NEC 500					
	Class I		Class II		Class III	
Division	1	2	1	2	1	2
Ex interface	•	•	•	•	•	•
Installation in		•		•		•



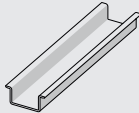
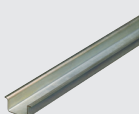

Selection Table							
Output		0/4 ... 20 mA active / source					
Number of channels	Limit contact (per channel)	Load resistance R_L max.	SIL	Product Type	Art. No.	PS	Weight kg
1	2 NO / NC	750 Ω	2	9182/10-51-14s	201682	21	0.170
	Without	750 Ω	–	9182/10-51-11s	160546▲	21	0.195
	Without	750 Ω	2	9182/10-51-13s	201653▲	21	0.170
2	Without	600 Ω	–	9182/20-51-11s	160541▲	21	0.195

Signal duplication due to parallel connection of inputs (dual-channel version 9182/2). Further information see operating instruction.

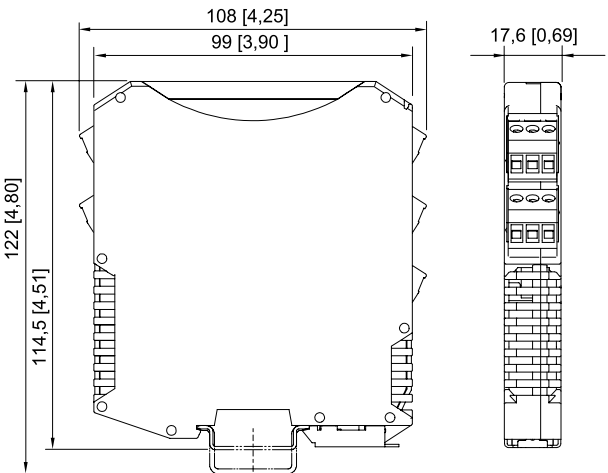
Technical Data	
Explosion Protection	
Gas explosion protection IECEx	Ex nA nC [ia Ga] IIC T4 Gc
Gas explosion protection ATEX	Ⓔ II 3 (1) G Ex nA nC [ia Ga] IIC T4 Gc
Gas explosion protection EAC	2 Ex nA nC [ia Ga] IIC T4 Gc X
Dust explosion protection IECEx	[Ex ia Da] IIIC
Dust explosion protection ATEX	Ⓔ II (1) D [Ex ia Da] IIIC
Dust explosion protection EAC	[Ex ia Da] IIIC
Certificates	ATEX (BVS), Brazil (ULB), Canada (FM), EAC (STV), IECEx (BVS), India (PESO), Korea (KTL), Russia (Meteorological certificate), SIL (exida), USA (FM), USA (UL)
Ship approval	CCS, DNVGL

Technical Data	
Safety Data	
Max. voltage U_e	6.5 V
Max. current I_e	19.7 mA
Max. power P_e	32 mW
Safety-related maximum voltage	253 V
Electrical Data	
Input potentiometer	up to 100 k Ω
Input resistance temperature detector (RTD)	Types Pt 100, Pt 500, Pt 1000, Ni 100, Ni 500, Ni 1000
Input resistance temperature detector (RTD) Type of circuit	2-, 3-, 4-wire circuit
Input thermocouple	Types B, E, J, K, N, R, S, T, L, U, XK
Auxiliary Power	
Auxiliary power	24 V DC
Input	
Message of line fault and auxiliary power failure	- Contact (30 V / 100 mA) closed to ground in case of fault - pac-Bus, floating contact (30 V / 100 mA)
Ambient Conditions	
Ambient temperature	-20 °C ... +70 °C (Single device) -20 °C ... +60 °C (Group assembly)
Storage temperature	-40 °C ... +80 °C
Mounting / Installation	
Mounting type	DIN rail (NS35/15, NS35/7.5)

Accessories and Spare Parts			
Figure	Description	Art. No.	Weight kg
Parametrising set ISpac - Wizard			
	The software serves for commissioning, configuring and diagnosing the ISpac isolators Series 9146, 9162 and 9182. For further information, see operating instructions. Form of delivery: CD-ROM; parametrising software incl. parametrising cable / adaptor System requirements: IBM compatible PC with MS Windows 98, NT, 2000, XP, Vista, Windows 7 CD-ROM drive RS 232 C interface RS 232 / USB adaptor	202595	0.235
Screw terminal			
	3-pole plug, screw connector thread: M3 stripping length: 7 mm colour: green	112817	0.005
	3-pole plug, screw connector thread: M3 stripping length: 7 mm colour: black	112816	0.004
	3-pole plug, screw connector thread: M3 stripping length: 7 mm colour: blue	112818	0.005
Spring clamp terminal			
	3-pole plug with test tap, spring clamp connection stripping length: 10 mm colour: green	112825	0.005

Accessories and Spare Parts			
Figure	Description	Art. No.	Weight kg
Spring clamp terminal			
	3-pole plug with test tap, spring clamp connection stripping length: 10 mm colour: black	112824	0.005
	3-pole plug with test tap, spring clamp connection stripping length: 10 mm colour: blue	112826	0.005
DIN rail			
	NS 35 / 15 (available by the metre)	103714 ▲	1.410
DIN rail			
	NS 35 / 7.5 (available by the metre)	103707	0.349
Front cover			
	yellow, transparent. Clear marking of the device for SIL applications. (Packaging unit: 10 pieces)	200914	0.020

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



ISpac Series 9146, 9147, 9160, 9162, 9163, 9165, 9167, 9170, 9172, 9175, 9176, 9180, 9182, 9193 with screw terminal