



- Eight channels for resistance temperature detectors, potentiometers, thermocouples, mV sensors and joysticks
- Intrinsically safe Ex ia inputs with line fault monitoring
- Module in Zone 2 can be hot swapped

WebCode 9482B



The 9482 series temperature input module for Zone 2 has eight channels for the Ex i operation of resistance temperature detectors with two-, three- or four-conductor connection and thermocouples. Sensors that comply with DIN, IEC and GOST are supported as well as resistance transmitters up to 10 kΩ and also joysticks for rapid four-channel operation. Earthed thermocouples can be connected. Cold junction compensation can be performed internally or externally.

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






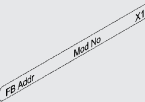


	NEC 505			NEC 506		
	Class I					
	0	1	2	20	21	22
Zone						
Ex interface	•	•	•	•	•	•
Installation in			•			•

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

Selection Table			
Installation	Zones 2, 22 and in the safe area		
Number of channels	Product Type	Art. No.	Weight kg
(depends on operating mode) 8 or 4 Ex i inputs	9482/33-08-10	217644 ▲	0.275
Please order 2 terminals separately - see accessories and spare parts			

Technical Data	
Explosion Protection	
IECEx gas explosion protection	Ex nA ia [ja Ga] IIC T4 Gb
IECEx dust explosion protection	[Ex ia Da] IIIC
ATEX gas explosion protection	⊕ II 3 (1) G Ex nA ia [ja Ga] IIC T4 Gb
ATEX dust explosion protection	⊕ II (1) D [Ex ia Da] IIIC
EAC gas explosion protection	⊕ 2 Ex nA ia [ja Ga] IIC T4 Gc X
EAC dust explosion protection	⊕ [Ex ia Da] IIIC
Certificates	ATEX (DEK), Brazil (ULB), Canada (FM), EAC (STV), IECEx (DEK), India (PESO), Korea (KTL), Russia (Meteorological certificate), USA (FM)
Ship approval	DNVGL, RINA
Safety Data	
Notes	For proof of intrinsic safety, the safety data must be used in accordance with the combination of connections and the corresponding sensor. For further information and combination, see operating instructions.

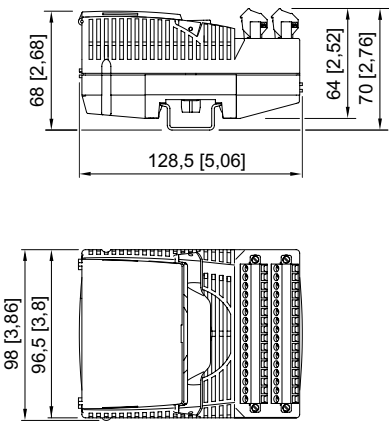
Technical Data	
Auxiliary Power	
Current consumption	42 mA
Max. power consumption	1 W
Max. power dissipation inputs	1 W
Input	
Compensation of reference junctions	Internal (adjustable parameters) External 3-wire circuit
Mechanical Data	
Degree of protection IP (IEC 60529)	IP20
Width	96.5 mm
Height	67 mm
Length	128 mm

Accessories			
Figure	Description	Art. No.	Weight kg
External reference junction			
	External reference junction for 2 x thermocouple (1 x Pt100 for 2, 3 or 4 wire connection) integrated into the 4-pole. terminal block. Installation takes place on the DIN rail.	160675	0.030
Pluggable terminal			
	2.5 mm² with lock, 16-pole, screw connector, blue, for connecting the field signals to I/O modules, for intrinsically safe field circuits Labelling: 1 ... 16 Attention: An additional terminal is necessary for I/O module Series 9470 and 9482. Labelling: 17 ... 32	162702	0.028
	2.5 mm² with lock, 16-pole, screw connector, blue for connecting the field signals to I/O modules, for intrinsically safe field circuits Labelling: 17 ... 32	162718	0.028
	2.5 mm² with lock, 16-pole, spring clamp connection, blue, for connecting the field signals to I/O modules, for intrinsically safe field circuits, incl. test jacks Labelling: 1 ... 16 Attention: An additional terminal is necessary for I/O module Series 9470 and 9482. Labelling: 17 ... 32	162695 ▲	0.028
	2.5 mm² with lock, 16-pole, spring clamp connection, blue for connecting the field signals to I/O modules, for intrinsically safe field circuits, incl. test jacks Labelling: 17 ... 32	162716 ▲	0.028
Labelling strips			
	"FB Addr ... Mod No ..." for pluggable terminal, 26 pieces on the sheet	162788	0.001
DIN A4 sheet			
	For the label plate on I/O modules, 6 labels per sheet Print IS Wizard, packaging unit = 20 sheets	162832	0.001
Partition			
	For mounting between intrinsically safe and non-intrinsically safe connections of the I/O modules, in order to adhere to the required 50 mm distance	220101 ▲	0.010

Accessories

Figure	Description	Art. No.	Weight kg
Warning sign			
	"Clean modules only with a damp cloth."	162796	0.001
Resistor error message suppression			
	The resistors are used to suppress error messages for unused I/O channels Resistance value: 62R / 0.5 W Suitable for: AOM 9468; TIM 9482	244912	-

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



Ex i Inputs

Connectable resistance temperature detectors / resistance transmitters	Type	Reference	Measuring range (ITS-90)	Medium resolution	
	Pt100	IEC 60751	200 ... +850 °C	0.1 K	
	Pt500	IEC 60751	-200 ... +850 °C	0.1 K	
	Pt1000	IEC 60751	-200 ... +850 °C	0.1 K	
	Ni100	DIN 43760	-60 ... +180 °C	0.1 K	
	Ni500	DIN 43760	-60 ... +180 °C	0.1 K	
	Ni1000	DIN 43760	-60 ... +180 °C	0.1 K	
	Pt46	GOST 6651-94	-200 ... +1100 °C	0.15 K	
	Pt50	GOST 6651-94	-200 ... +1100 °C	0.15 K	
	Pt100	GOST 6651-94	-200 ... +1100 °C	0.1 K	
	Cu53	GOST 6651-94	-50 ... +180 °C	0.1 K	
	M50	GOST 6651-94	-200 ... +200 °C	0.15 K	
	M100	GOST 6651-94	-200 ... +200 °C	0.1 K	
	Resistance transmitter (3-wire)	--	0 ... 500 Ω	0.02 Ω	
	Resistance transmitter (3-wire)	--	0 ... 2.5 kΩ	0.10 Ω	
	Resistance transmitter (3-wire)	--	0 ... 5 kΩ	0.20 Ω	
	Resistance transmitter (3-wire)	--	0 ... 10 kΩ	0.4 Ω	
	Resistance transmitter (3-wire)	--	-200 ... +850 °C	0.1 K	
	Joystick (4-wire)	--	500 ... 10 kΩ		
Connectable thermocouples / mV sensors	Type	Reference	Measuring range (ITS-90)	Medium resolution	Medium error of measurement with regard to measuring range
	B	IEC 60584-1	-400 ... +1800 °C	0.25 K	0.1 %
	E	IEC 60584-1	-200 ... +1000 °C	0.1 K	0.013 %
	J	IEC 60584-1	-200 ... +1200 °C	0.1 K	0.014 %
	K	IEC 60584-1	-200 ... +1370 °C	0.1 K	0.02 %
	N	IEC 60584-1	-200 ... +1300 °C	0.1 K	0.02 %
	R	IEC 60584-1	-50 ... +1767 °C	0.2 K	0.05 %
	S	IEC 60584-1	-50 ... +1767 °C	0.2 K	0.053 %
	T	IEC 60584-1	-200 ... +400 °C	0.1 K	0.042 %
	L	DIN 43710	-200 ... +900 °C	0.1 K	0.027 %
	U	DIN 43710	-200 ... +600 °C	0.1 K	0.038 %
	XK	GOST 8.585	-50 ... +800 °C	0.1 K	0.02 %
	mV	--	0 ... +100 mV	3.6 μV	0.01 %