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Date of issue:	2022-11-21	Issue No: 3			
Manufacturer:	R. STAHL Schaltgeräte GmbH Am Bahnhof 30 74638 Waldenburg Germany				
Manufacturing locations:	R. STAHL Schaltgeräte GmbH Am Bahnhof 30 74638 Waldenburg Germany				
This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended					
STANDARDS : The equipment and a to comply with the fo		of this certificate and the identified documents, was found			
IEC 60079-0:2017 Edition:7.0	Explosive atmospheres - Part 0: Equipment - General	l requirements			
IEC 60079-11:2011 Edition:6.0	Explosive atmospheres - Part 11: Equipment protection	on by intrinsic safety "i"			
IEC 60079-15:2017 Edition:5.0	Explosive atmospheres - Part 15: Equipment protection	on by type of protection "n"			
IEC 60079-7:2017 Edition:5.1	Explosive atmospheres - Part 7: Equipment protection	n by increased safety "e"			

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

DE/BVS/ExTR09.0042/02

Quality Assessment Report:

DE/BVS/QAR10.0002/18



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Subject and Type

See Annex

Description

The Temperature Transmitter type 9182 is an associated apparatus per IEC 60079-11 as well as an apparatus under controlled environments per IEC 60079-7. The intrinsically safe circuits are galvanically separated from each other as well as from the non-I.S. signal circuits and from the power supply circuit.

The Temperature Transmitter serves to connect up to 2 thermoelement sensors (TC), resistance thermometers (RTD), potentiometers or passive voltage sensors in an intrinsically safe manner. The device linearizes the temperature signal and converts it to a standard current or voltage. In addition, it possesses switch contacts for error indication and, optionally, up to two switch contacts per channel to indicate limit infringements.

Parameters

See Annex

1

SPECIFIC CONDITIONS OF USE: YES as shown below:

- For installation in areas, where EPL Gc equipment is required, the equipment shall be installed in an enclosure that provides a minimum ingress protection of IP54 in accordance with IEC 60079-0.
- 2 The equipment shall only be used in an area of at least pollution degree 2, as defined in IEC 60664-1.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

· Assessment of Temperature Transmitter in accordance with the current standard versions

Modification of the marking

Update of the documentation

Annex:

BVS_09_0046X_Stahl_Annex_issue3.pdf





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Subject and Type

Temperature Transmitter type 9182/*0-5*-**

Instead of the *** in the complete denomination numerals will be inserted which characterize modifications:

	perature Transmitter 9182/ hber of channels:	*	0	-	5	*	- *	* *
1								
2								
Outp	put:]						
0	No analog output							
1	Analog 0/4-20 mA							
3	Analog 0/1-5 V							
9	Analog 0/4-20 mA passive							
Pow	er supply							
1	24 V DC, associated apparatus							
6	24 V DC, nonincendive apparatus							
Spe	cial functions							
1	without limit value contacts							
	with line fault detection							
2	2 limit value contacts per channel							
	with line fault detection							
3	SIL 2, without limit value contacts							
	with line fault detection							
4	SIL 2, 2 limit value contacts per channel							
	with line fault detection							

Parameters

1	Power input Terminal No. 7 (L+), 9 (L-) and pac-bus connecto Nominal voltage Nominal current	r V007 / 1 (+) Un In	, 2 (-) DC	24 V (18 80	8-31.2V) mA
	Maximum voltage	Um	AC	253	V
2	Non-intrinsically safe signal circuits Maximum voltage	Um	AC	253	V
2.1 2.1.1	Output circuit and switching contact circuits Type 9182/20-51-*1 and Type 9182/20-51-*3 Output 1: Terminal 1 and 2 Output 2: Terminal 5 and 6				
	Nominal voltage Nominal current	Un In	DC	15 20	V mA
2.1.2	Type 9182/10-51-*1 and Type 9182/10-51-*3 Output 1: Terminal 1 and 2				
	Nominal voltage Nominal current	Un In	DC	15 20	V mA





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2.1.3	Type 9182/10-51-*2 Output 1: Terminal	2 and Type 9182/10-51-*4 1 and 2	1			
	Nominal voltage Nominal current		Un In	DC	15 20	V mA
	Switch contact 1: To Switch contact 2: To					
	Nominal voltage Nominal current		Un In	AC/DC	30 30 100	V mA
2.1.4	Type 9182/10-50-*2 Switch contact 1: To Switch contact 2: To		1			
	Nominal voltage Nominal current		Un In	AC/DC	30 30 100	V mA
2.1.5	Switch contact 1: To Switch contact 2: To Switch contact 3: To	erminal 2 (together with s	witch contact			
	Nominal voltage Nominal current		Un In	AC/DC	30 30 100	V mA
2.1.6	Type 9182/10-53-* Output 1: Terminal					
	Nominal voltage Nominal current		Un In	DC	5 10	V mA
2.1.7	Type 9182/10-53-* Output 1: Terminal					
	Nominal voltage Nominal current		Un In	DC	5 10	V mA
	Switch contact 1: T Switch contact 2: T					
	Nominal voltage Nominal current		Un In	AC/DC	30 30 100	V mA
2.1.8	Type 9182/20-53-* Output 1: Terminal Output 2: Terminal	1 and 2				
	Nominal voltage Nominal current		Un In	DC	5 10	V mA





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2.1.9	Type 9182/10-59-* Output 1: Terminal	1 and Type 9182/10-59-*3 1 and 2				
	Nominal voltage Nominal current		Un In	DC	22 20	V mA
2.1.10	Type 9182/20-59-* Output 1: Terminal Output 2: Terminal					
	Nominal voltage Nominal current		Un In	DC	19 20	V mA
2.1.11	Type 9182/10-59-* Output 1: Terminal	2 and Type 9182/10-59-*4 1 and 2				
	Nominal voltage Nominal current		Un In	DC	22 20	V mA
	Switch contact 1: T Switch contact 2: T					
	Nominal voltage Nominal current		Un In	AC/DC	30 100	V mA
2.2	Circuit 1 is connect	uits No. 8, 9 (-); circuit 2: pac-Bu red to the power input via the cally isolated from circuit 1.			1	
	Nominal voltage Nominal current		Un In	AC/DC	30 100	V mA
2.3	Configuration interfa	ace (RS232) 1 behind the front cover				
	Nominal voltage Nominal current		Un In		±15 10	V mA
2.4	Input circuits Terminal No. 10 to	15, any interconnection				
	Maximum voltage Maximum current		Un In		6.5 19.7	V mA
	Maximum output volt Maximum output cur Linear output charac	5, any interconnection tage rent teristics	Uo Io		6.5 19.7	V mA
	Maximum output pov		Po		32	mW





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Maximum external capacitance C_{\circ} or maximum external inductance L_{\circ} :

	IIB	IIC
Lo	330 mH	90 mH
Co	570 µF	25 µF

4 Ambient temperature range

-20 °C ≤ T_a ≤ +70 °C