



Type 8327 can be combined with...



Type 8611 Universal PI controller eControl



Type 2712 (1067) Control valve with SideControl

This intrinsically safe pressure transmitter is designed to cover the majority of industrial applications in the field of industrial pressure measurement technology.

High accuracy, reliability, compatibility with $most\ media,\ adjust ability,\ versatility,\ compact$ design and robust construction make this instrument universal and suitable for different measurement functions in hazardous environments.

For technical reasons piezoresistive sensor element is used for measuring ranges up to 16 bar (thin film sensor element for the measuring range of 25 bar, on request).

Wetted parts are made of stainless steel and completely welded. Internal seal elements, which could restrict the choice of measuring materials, are excluded.

Pressure transmitter for hazardous environments, 0-25 bar

- Piezoresistive element
- Available with flush diaphragm
- ⑤-protection: EEx ia I/II C T6 in compliance with ATEX
- Applicable in the follow. hazardous environments:
 - connection to zone 1 and 2 Gases and vapour (G)
- Standard signal 4...20 mA for connection to automation-systems



Type 0911

Process indicator



PLC

General data			
Compatibility Standard version Flush Diaphragm version	Any pipe with sensor connection G 1/2" B according to DIN 16288, G 1" B with O-ring (range up to 1.6 bar) G 1/2" B with O-ring (range > 1.6 bar) (Weld-on socket with connection G1/2"B, G1"B)		
Materials Housing Wetted parts Standard version Flush Diaphragm version Internal transmitting liquid	Stainless steel 1.4571 Stainless steel 1.4571 (and 1.4542 with 25 bar) Stainless steel 1.4571, NBR seal Synthetic Oil (only for pressure range up to 16 bar or flush diaphragm units)		
Electrical connections	4 pin cable plug acc. to EN 175301-803		
Measuring range (Pressure reference = relative pressure [atmospheric])	0 up to 1.0, 2.5, 6.0, 10.0, 16.0 bar		
Measuring element	piezo (≤ 16 bar) [thin film (25 bar) on request]		
Fluid temperature**	-30 up to +100°C		
Compensated T° range	0 up to +80°C		
Temperature coefficient Average Tc of zero Standard version Flush Diaphragm version Average Tc of Span	in compensated T° range ≤ 0.2% of F.S.* / 10K ≤ -0.2+0.3% of F.S.* / 10K ≤ 0.2% of F.S.* / 10K		
Accuracy	≤ 0.5% of F.S.* (2-point calibration)¹¹ ≤ 0.25% of F.S.* (Best fit calibration, BFSL)¹¹		
Hysteresis	≤ 0.1% of F.S.*		
Repeatability	≤ 0.05% of F.S.*		
1-year stability	≤ 0.2% of F.S.* (at reference conditions)		

¹⁾ Calibrated in vertical mounting position with pressure connection bottom

^{**} see list of EC-type homologation certificate



Electrical data		
Power supply [Vs]	10 -30 V DC	
Reversed polarity of DC	Protected	
Overvoltage protection	Yes	
Short circuit protection	Yes	
Output	Standard 4-20 mA signal, 2 wires	
Load in Ω	≤ (Vs [V] - 10 [V]) / 0.02 [A]	
Adjustability: Zero / span	± 10%	
Response time	≤ 1 ms	

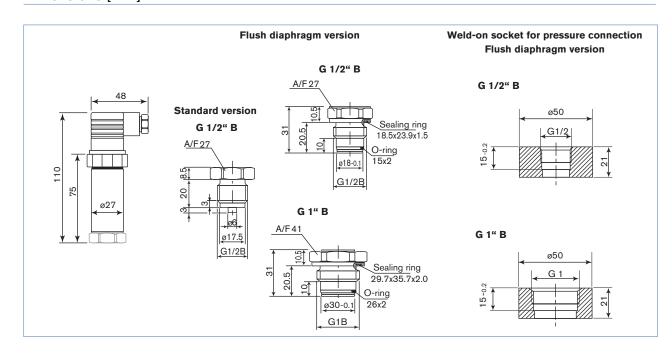
Environment			
Ambient temperature**	-30 up to +100°C		

Standards, directives and approvals		
Protection class IP65 with cable plug mounted and tightened		
Standards and directives EMC	EN 50081-1, 50081-2, 50082-2	

Specifications EEx			
⊚-Protection	Categories** 2G {1/2G}		
⊗ -Certification	EEx ia I/II C T6 (DMT 01 ATEX E 125)		
Conformity specifications			
power supply	30 VDC		
short circuit rating	100 mA		
power limitation	1 W		
medium temperature	-20 up to +60°C		
ambient temperature	-20 up to +60°C		
storage temperature	-50 up to +105°C		
internal capacity Ci	≤ 22 nF		
internal inductivity Li	≤ 100 mH		

** see list of EC-type homologation certificate (For further safety information please see the EC-type homologation certificate DMT 01 ATEX E 125)

Dimensions [mm]





Ordering chart for Type 8327

Pressure range [bar]	Pressure max. [bar]	Bursting pressure [bar]	Power supply	Output signal	ltem no. Standard	ltem no. Flush diaphragm standard G 1/2" B	ltem no. Flush diaphragm standard G 1" B
0 - 1.0	5	5	10 - 30 V DC	4-20 mA	448 693	-	448 698
0 - 2.5	10	10	10 - 30 V DC	4-20 mA	448 694	448 699	-
0 - 6.0	35	35	10 - 30 V DC	4-20 mA	448 695	448 700	-
0 - 10.0	35	35	10 - 30 V DC	4-20 mA	448 696	448 701	-
0 - 16.0	80	80	10 - 30 V DC	4-20 mA	448 697	448 702	-

Further versions on request

Pressure

0 up to 0.1, 0.16, 0.25, 0.4, 0.6, 1.6, 4.0, 25 bar

Materials

thin film sensor element for transmitter 0 up to 5 bar $\,$

Ordering chart for accessories (to be ordered separately)

Description	Item no.		
Weld-on socket for flush diaphragm standard version G 1/2"	443 295		
Weld-on socket for flush diaphragm standard version G 1"			

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