

Pressure Transmitter Explosion proof Model E-10, standard version Model E-11, flush diaphragm

Первое Представительство Солнца

WIKA Data Sheet PE 81.27







Applications

- Wellhead monitoring
- Refining / Petrochemical
- Offshore platforms / pipelines
- Gas measurement

Special Features

- FM-approved Explosion proof for Class I Division 1 hazardous locations
- ATEX-approved Flameproof for II 2G Ex d II C
- Available with 4 ... 20 mA, 2-wire or 1 ... 5 V, 3-wire output signals
- Engineered to meet harsh demands
- Retrofits many existing applications







Fig. left Fig. center Fig. right

Pressure transmitter E-10 / ATEX
Pressure transmitter E-10 / FM, CSA
Pressure transmitter E-11 (open wires) /
FM, CSA

Description

The Types E-10 and E-11 explosion proof / flameproof pressure transmitters are specifically designed to meet the durability and performance requirements of industrial applications.

These pressure transmitters feature an industry standard 4 ... 20 mA, 2-wire signal output (optional signal output 1 ... 5 V), NEMA 4X (IP 67) ingress protection, and are extremely resistant to vibration, moisture instrusion and pressure spikes. They are applicable for acid gas apllications and therefore they provide extra resistance against sulfide stress cracking when exposed to gases containing sulphur.

The transmitters are engineered to meet Class I Division 1 Explosion proof protection according to FM, CSA or II 2 G Ex d II C according to ATEX for installation in hazardous environments.

Each transmitter undergoes extensive quality control testing and calibration to achieve an accuracy of ≤ 0.5 %. In addition, each pressure transmitter is temperature compensated to assure accuracy and long term stability when exposed to severe ambient temperature variations.

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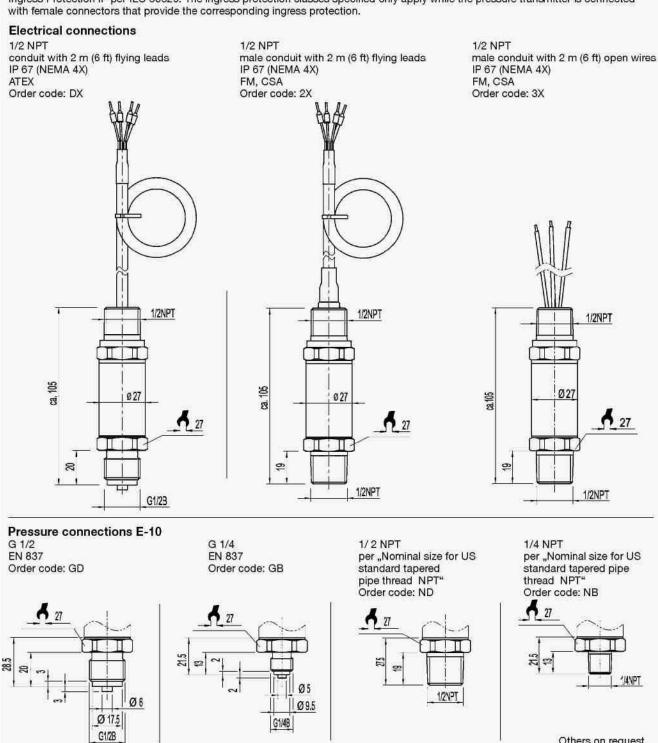


Specifications		Model E-10 / E-11									
Pressure ranges	bar	0.4	0.6	1	1.6	2.5	4	6	10	16	
Over pressure safety	bar	2	4	5	10	10	17	35	35	80	
Burst pressure	bar	2.4	4.8	6	12	12	20.5	42	42	96	
Pressure ranges	bar	25	40	60	100	160	250	400	600	10001)	
Over pressure safety	bar	50	80	120	200	320	500	800	1200	1500	
Burst pressure	bar	96	400	550	800	1000	1200	17002)	2400 ²⁾	3000	
Duist pressure	C. C	1000	72.0	III SEE			The state of the s	AND THE RESERVE	2,00	0000	
	{Vacuum, gauge pressure, compound range, absolute pressure are available} 1) Only model E-10.										
	2) For model E-11: the value specified in the table applies only when sealing is realised with the										
	sealing ring underneath the hex. Otherwise max. 1500 bar applies.										
Maradan.	Sealing III										
Materials		(otner	materials	see WIKA	diaphrag	m sear pro	ogram)				
■ Wetted parts					E .	0-1	arran -		W		
» Model E-10		N					25 bar Stainless steel and Elgiloy®)				
» Model E-11		Stainless steel O-ring: NBR {FPM/FKM}									
■ Case		Stainless steel									
■ Internal transmission fluid		Synthetic oil (not for model E-10 with pressure ranges > 25 bar)									
Power supply UB	UB in VDC	10 < UB ≤ 30 with signal output 4 20 mA, 2-wire									
		6 < UB ≤ 30 with signal output 1 5 V, 3-wire									
Signal output and	R _A in Ohm	4 20	0 mA, 2-w	ire	R _A ≤(U	B - 10 V)	/ 0.02 A				
maximum ohmic load R _A	360	1 5 V, 3-wire R _△ > 10 k									
Response time (10 90 %)	ms	≤ 1 (≤ 10 ms at medium temperatures below -30 °C for pressure ranges up to 25 ba									
	or with flush diaphragm)										
Insulation voltage	VDC	500									
Accuracy	% of span	% of span ≤ 0.25 (BFSL)									
	% of span ≤ 0.5 ³⁾										
	3) Including non-linearity, hysteresis, zero point and full scale error (corresponds to error of										
	measurement per IEC 61298-2)										
	Adjusted in vertical mounting position with lower pressure connection										
Non-linearity	% of span	≤ 0.2	3				g to IEC 6				
Non-repeatability	% of span	≤ 0.1			10.00		9 10 120 1	1200			
1-year stability	% of span	≤ 0.1 ≤ 0.2 (at reference conditions)									
Permissible temperature of	70 Of Spari	3 0.2			(at rei	0101100 00	mullions				
■ Medium ⁴⁾	°C	20	+100 °C {	40 .1	05 901	1.0	0 .010	0E (40	001 PEI		
■ Ambience ⁴⁾	15150	135000000000000000000000000000000000000	200000000000000000000000000000000000000	Company of the Compan	00000 - 100 - 100 - 400 - 100			°F {-40			
	°C	-30 +100 °C {-40 +105 °C}									
■ Storage ⁴⁾	°C	-30 +105 °C {-40 +105 °C} -22 +221 °F {-40 +221 °F} plies with EN 50178, Tab. 7, Operation (C) 4K4H, Storage (D) 1K4, Transport (E) 2K3						01/0			
	32.			, lab. 7, 0	Operation	(F) (I) (C)			ansport (E) 2K3	
Compensated temp. range	°C	0 +8	80 °C			1 +	32 +17	5°F			
Temperature coefficients within											
compensated temp range	55457 (560)	West									
■ Mean TC of zero	% of span	≤ 0.2 /									
■ Mean TC of range	% of span	≤ 0.2 /	10 K								
CE-conformitiy											
■ Pressure equipment directive		97/23/EC									
■ EMC directive		89/33	6/EEC em	ission (cla	iss B) and	immunity	according	g to EN 61	326		
 Directive ATEX of equipment intended for use in potentially explosive atmospheres 		94/9/EC									
Ex-protection	ATEX	Cated	ory ⁵⁾ 2G								
Ignition protection type	INCHAID VERM		0.11-0.11	d II C T5.	Ex d II C	T6					
se we see see see see see see see see se	5) Read the						in the EC	-type			
	examinati										
HF-immunity	V/m	10		, (
BURST	KV	4									
55.161	13.4	Section 18 Section 19					0.00 10 10	SIN			
Shock resistance	g	1000	according	to IEC 60	068-2-27	/macha	nical shoo	·k1			

Specifications		Model E-10 / E-11				
Wiring protection						
■ Short-circuit proofness		Sig+ towards UB-				
■ Reverse polarity protection		UB+ towards UB-				
Weight	kg	Approx. 0.2 (0.4 lbs)				

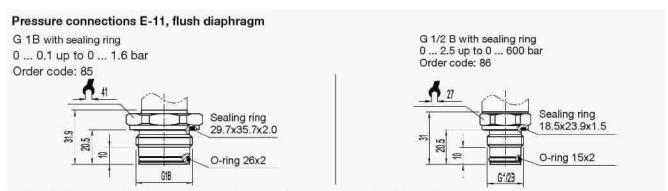
⁽⁾ Items in curved brackets are optional extras for additional price.

Ingress Protection IP per IEC 60529. The ingress protection classes specified only apply while the pressure transmitter is connected



For installation and safety instructions see the operating instructions for this product.

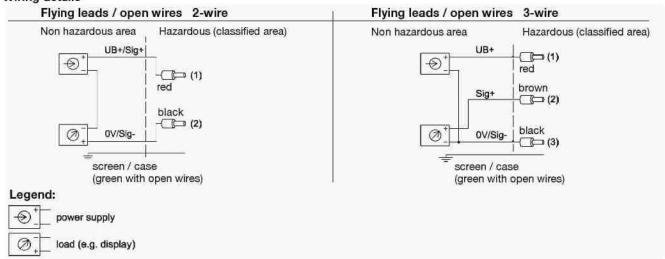
For tapped holes and welding sockets please see Technical Information IN 00.14 for download at www.wika.de -Service



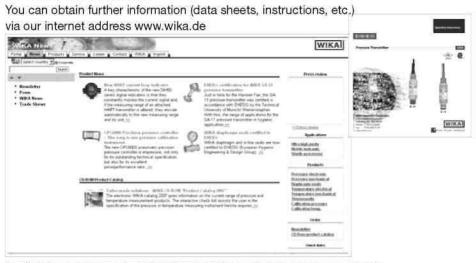
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Wiring details



Further information



Specifications and dimensions given in this leaflet represent the state of engineering at the time of printing. Modifications may take place and materials specified may be replaced by others without prior notice.

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