

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 $\leq 0.5~\%$. 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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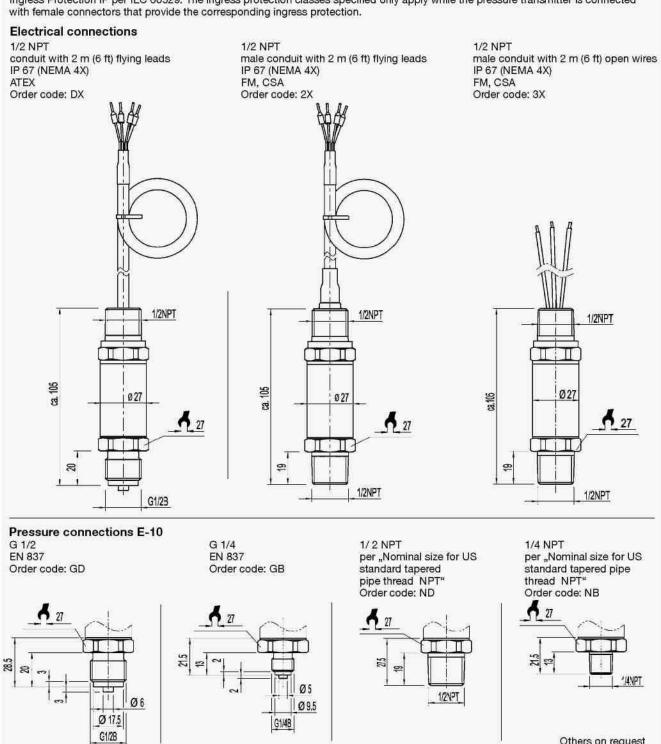
Specifications	Model E-10 / E-11											
Pressure ranges	bar	0.4	0.6	1	1.6	2.5	4	6	10	16		
Over pressure safety	bar	2	4	5	10	10	17	35	35	80		
Burst pressure	bar	2.4	4.8	6	12	12	20.5	42	42	96		
Pressure ranges	bar	25	40	60	100	160	250	400	600	1000		
Over pressure safety	bar	50	80	120	200	320	500	800	1200	1500		
Burst pressure	bar	96	400	550	800	1000	1200	17002)	24002)	3000		
Burst pressure		10000000							L 100	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.											
Matadala	Sealing m	-										
Materials		(otner	materials	see WIKA	A diaphrag	m seai pr	ogram)					
■ Wetted parts			MANAGEMENT AND THE CONTRACT OF		24.60		4 100 0 March 2004 1 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	and the second second second	CONTRACTOR CONTRACTOR			
» Model E-10		Stainless steel			(> 25 bar Stainless steel and Elgiloy®)							
» Model E-11		Stainless steel			O-ring: NBR {FPM/FKM}							
■ Case		Stainless steel										
■ Internal transmission fluid	A SAN TRANSPORT FOR THE SAN TO SAN THE	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 mA, 2-wire			$R_A \le (UB - 10 \text{ V}) / 0.02 \text{ A}$							
maximum ohmic load R _A	28.00	1 5 V, 3-wire R _A > 10 k										
Response time (10 90 %)	ms	≤ 1 (≤ 10 ms at medium temperatures below -30 °C for pressure ranges up to 25 b										
		or with flush diaphragm)										
Insulation voltage	VDC	500										
Accuracy	% 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	ounting p	ooition w		accordir						
Non-repeatability	% of span	≤ 0.1			(01 02	accordi	ig to iLo	012002				
1-year stability	% of span	≤ 0.1 ≤ 0.2 (at reference conditions)										
	70 Of Spari	= 0.2			(at 16)	erence co	oriumoris,					
Permissible temperature of Medium 4)	00	20	100 00		05.80)	1.0	0.010	0 0 F (10	.001 95			
	°C	Carrier	-30 +100 °C {-40 +105 °C} -30 +100 °C {-40 +105 °C}		and the second state	-22 +212 °F {-40 +221 °F} -22 +212 °F {-40 +221 °F}						
■ Ambience ⁴⁾	°C			21 3354 440		100						
■ Storage ⁴⁾	°C	-30 +105 °C {-40 +105 °C}										
		plies with EN 50178, Tab. 7, Operation (C) 4K4H, Storage (D) 1K4, Transport (E) 2K3										
Compensated temp. range	°C	0 +8	30 °C			+	32 +17	′6 °F				
Temperature coefficients within												
compensated temp range												
■ Mean TC of zero	% of span	≤ 0.2 /	10 K									
■ Mean TC of range	% of span	≤ 0.2 /	10 K									
CE-conformitiy												
■ Pressure equipment directive		97/23/EC										
■ EMC directive		89/336/EEC emission (class B) and immunity according to EN 61 326										
 Directive ATEX of equipment intended for use in potentially 		94/9/EC										
explosive atmospheres	ATT		fil									
Ex-protection	ATEX		ory ⁵⁾ 2G									
Ignition protection type	Ex d II C T4, Ex d II C T5, Ex d II C T6 5) Read the operating instructions and safety relevant data in the EC-type											
								C-type				
	examinati		icate in a	ny case (KEMA 05	AFEX 224	0 X)					
HF-immunity	V/m	10										
BURST	KV	4										
Shock resistance	g	1000 a	according	to IEC 60	068-2-27	(mecha	anical sho	ick)				
Vibration resistance	g	20 acc	ording to	IEC 6006	8-2-6	(vibrati	on under	resonance)			

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.

Dimensions in mm

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

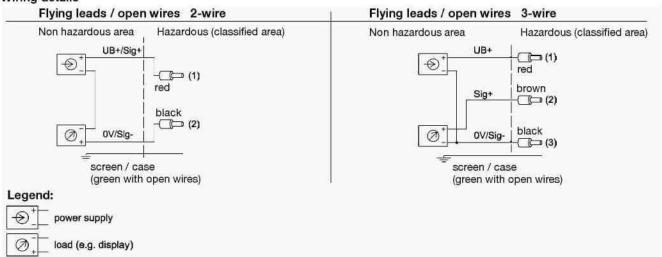
Others on request



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

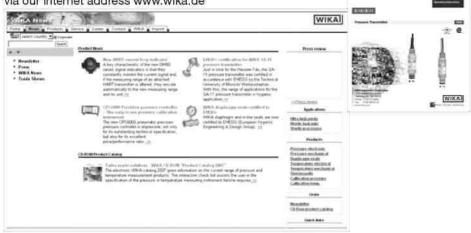
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Wiring details



Further information

You can obtain further information (data sheets, instructions, etc.) via our internet address www.wika.de



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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