

Type S-10 General Purpose Pressure Transmitter

Standard Features

■ Signal output: 4-20 mA 2-wire

■ Supply voltage: 10-30 VDC ■ Process connection: 1/2 NPT male

Electrical connection: DIN EN 175301-803 (DIN 43 650)

with plug connector







Gau	ıge Ranges	
D	escription	
Range	Part #	
0-50 inWC	8367656	
0-100 inWC	8341481	
0-5 psi	8415072	
0-10 psi	8642885	
0-15 psi	8643628	
0-25 psi	8341995	
0-30 psi	8643636	
0-50 psi	8348868	
0-60 psi	8643644	
0-100 psi	8643652	
0-160 psi	8341155	
0-200 psi	8644918	
0-250 psi	8341163	
0-300 psi	8341732	
0-400 psi	8341953	
0-500 psi	8341740	
0-600 psi	8347128	
0-750 psi	4294930	
0-1,000 psi	8610007	
0-1,500 psi	8341219	
0-2,000 psi	8353098	
0-3,000 psi	8342275	
0-5,000 psi	8340638	
0-8,000 psi	8341864	
0-10,000 psi	8347242	
0-15,000 psi	8359143	

Vacuum & Compound Ranges				
Description				
Range	Part #			
30"-0 HgVac	8642850			
30"-0-30 psi	8415080			
30"-0-60 psi	8415099			
30"-0-100 psi	8648646			
30"-0-160 psi	9796881			
30"-0-200 psi	8985538			

Absolute Pressure Ranges				
Description				
Range	Part #			
0-15 psia	8587582			
0-25 psia	8358503			
0-50 psia	8347854			
0-100 psia	9734538			
0-250 psia	9734589			
0-500 psia	9767164			

NOTE: Standard items and TRONIC 36 part numbers are shown in **bold** print .(Subject to prior sale)

For full speci cations and dimensional drawings, visit

to download datasheet S-10

General Purpose Pressure Transmitters Model S-10, S-11

Datasheet S-10, S-11

Applications

- Hydraulics and pneumatics
- Test equipment
- Pump and compressor control
- Liquid level measurement

Special Features

- Standard ranges available from stock
- 4-20 mA 2-wire output signal, others available
- Highly resistant to pressure spikes and vibration
- Stainless steel case and wetted parts
- Can be assembled to diaphragm seals for special applications



WIKA S-10 and S-11 pressure transmitters are precision engineered to fit most industrial pressure measurement applications. The compact, rugged design makes these instruments suitable for applications including hydraulics and pneumatics, vacuum, test equipment, liquid level measurement, press control, compressor control, pump protection and numerous other processing and control operations. A wide range of electrical connection and process connection options are available to meet almost any requirement.

Rugged construction

The S-10 features an all-welded stainless steel measuring cell for improved media compatibility. There are no internal soft sealing materials that may react with the media or deteriorate over time. The compact case is also made of stainless steel and is available with environmental protection ratings up to NEMA 6P / IP 68.



Left: S-10 with NPT process connection Center: S-11 with flush diaphragm process connection Right: S-11 with flush diaphragm process connection and integral cooling element

The S-11 transmitter features a flush diaphragm process connection. The S-11 is specifically designed for the measurement of viscous fluids or media containing solids that may clog a NPT process connection. Flush diaphragm pressure transmitters are available in pressure ranges from 50 InWC to 8,000 psi. For high temperature media, an integral cooling element is available on the S-11. This option increases the maximum media temperature to 300°F.

Each instrument undergoes extensive quality control testing and calibration to achieve an accuracy of $\leq 0.25\%$ full scale. The printed circuit boards use state-of-the-art surface mount technology and are potted in silicone gel for protection against mechanical shock, vibration and moisture. Each is individually temperature compensated to assure accuracy and long-term stability even when exposed to severe ambient temperature variations.

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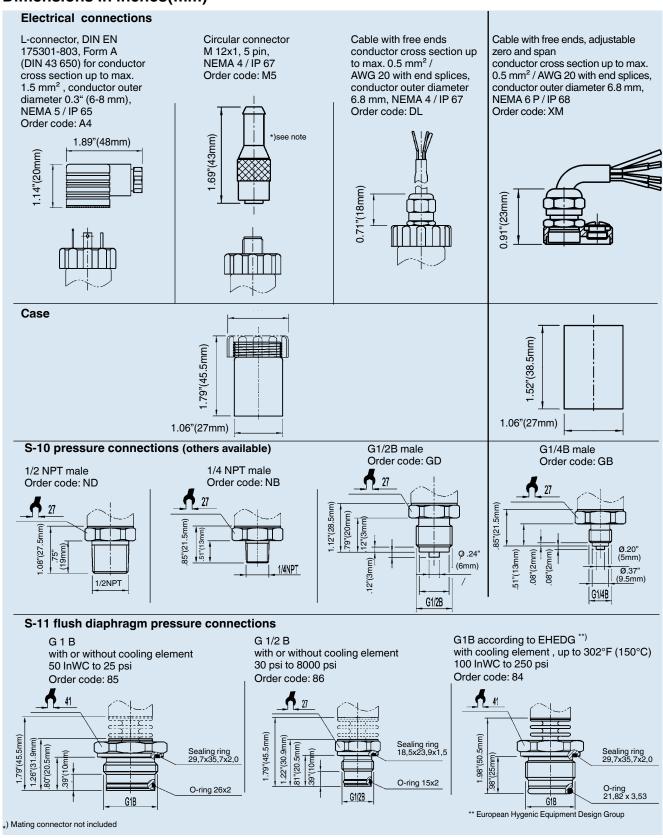


Specifications			Type S-	·10 / S-11					
Pressure range	50 InWC	5 psi	10 psi	25 psi	30 psi	60 psi	100 psi	160 psi	200 psi
Maximum pressure*	14 psi	29 psi	58 psi	145 psi	145 psi	240 psi	500 psi	1,160 psi	1,160 psi
Burst pressure**	29 psi	35 psi	69 psi	170 psi	170 psi	290 psi	600 psi	1,390 psi	1,390 psi
Pressure range	300 psi	500 psi	1,000 psi	2,000 psi	3,000 psi	5,000 psi	8,000 psi	10,000 psi ¹	15,000 ps
Maximum pressure*	1,160 psi	1,160 psi	1,740 psi	4,600 psi	7,200 psi	11,600 psi	17,400 psi	17,400 psi	21,750 ps
Burst pressure** {vacuum, gauge pressure, compo	1,390 psi	5,800 psi	7,970 psi	14,500 psi	17,400 psi	24,650 psi	34,800 psi	34,800 psi	43,500 ps
Nanges only available with Moo	_	ina absolute pr	essure releteri	ces are available	}				
2) For Model S-11 the burst press		o 21 000nei unl	ace tha nraceu	re seal is accom	nlishad hy using	the sealing ring	underneath the	hov	
*Pressure applied up to the maxis			-		-			iicx.	
**Exceeding the burst pressure n						o zoro ana opan	orinto		
Materials				a possible 1000 (· · · · · · · · · · · · · · · · · · ·				
■ Wetted parts			(other ma	terials see WIŁ	A diaphragm	seal program)			
> Model S-10			Stainless		o i diapinagini	coar program,			
> Model S-11									
/ Widdel 3-11			Stainless steel O-ring: NBR 3 {Viton® or EPDM}						
■ Cooo				•	LF DIVI}				
■ Case Internal transmission fluid 4)			Stainless	steei oil {Halocarbo	n® oil for over	on annlication	el 5)		
internal transmission huld 4				FDA for food		en application	o, ,		
		3) O-ring made	, ,	OM for Model S-1		cooling element.			
				10 in pressure ra		,			
				en version: -4		, , , , ,			
				absolute pressu	-				
Power supply U _B ⁶⁾		U _B in DC V	ь	30 (14 30 wi					
Signal output and		R _A in Ohm	4 20 m/		$R_A \le (U_B - 10 \text{ V})$				
maximum load R _A					$R_A \leq (U_B - 3V)$	/ 0.02 A			
			{0 5 V, 3		R _A > 5000				
A 12 . 1 . 120		21	{0 10 V,		-		ıtputs available	! }	
Adjustability zero/span		%		potentiomete			.000) (
Response time (10 90 %)		ms			-		0°C) for range	s < 300 psi	
la a latina contra na		DC 1/		sh diaphragm	orocess conn	ection)			
Isolation voltage		DCV	500	, (low voltage an	Now ourrant ma	ov 100 \/A ovon	under fault condi	tiono)	
Accuracy 7)		% of span				ax. 100 vA eveni	under laun condi	110115)	
Accuracy		% of span							
		•		s and repeatabili	•				
						n with pressure o	connection facing	down.	
	8		-	ble for pressure					
Non-repeatability		% of span	≤ 0.05		g				
1-year stability		% of span	≤ 0.2	(at reference	conditions)				
Permissible temperature of		- p - m -		,	,				
■ Medium ⁹⁾			-22 +21	2 °F {-40 +25	7 °F}	-30	.+100 °C {-40	+125 °C}	
				cooling element	-		with cooling ele		+150 °C
■ Ambient 9)			-4 +176				. +80 °C		
			S-11 with	cooling element	: -4 +176 °	F S-11	with cooling ele	ment: -20	+80 °C
■ Storage 9)			-40 +21	2°F		-40	.+100 °C		
			S-11 with	cooling element	: -4 +212°F	S-11	with cooling ele	ment: -20	+100 °C
		9) Also complie	s with EN 5017	'8, Tab. 7, Type C	, Class 4KH Op	eration, 1K4 Sto	rage, 1K3 Transp	oort	
Compensated temperature ra	ange		32 +176	°F		0 +	-80 °C		
Temperature coefficients (TC) within								
compensated temp range:									
■ Mean TC of zer		% of span	≤ 0.2 / 10	•	r pressure rar	nge ≤ 100 InW	C)		
■ Mean TC of rar	nge '	% of span	≤ 0.2 / 10	K					
CE - conformity									
■ Pressure equipment dire	ctive		97/23/EC						
■ EMC directive			2004/108/EEC, EN 61 326 Emission Group (Group 1, Class B) and						
)industrial loca					
Shock resistance	!	g		ording to IEC 6	•				
Vibration resistance	9	g		ling to IEC 600		bration under i			
Wiring protection			Protected	against revers	o polarity ove	rvoltage and s	hort circuit	·	
Weight				agametrovere	e polarity, ove	i voltage and c	SHOTE CITCUIT		

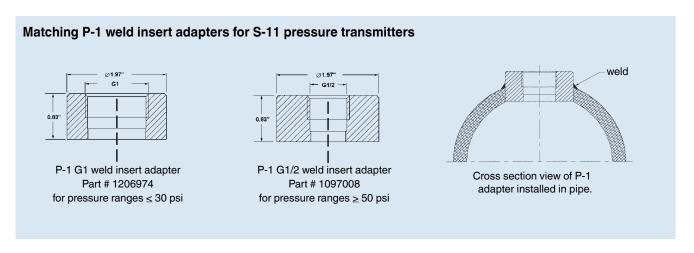
 $^{\{\,\} \}qquad \text{Items in curved brackets} \, \{\,\} \, \text{are optional extras for additional price}.$

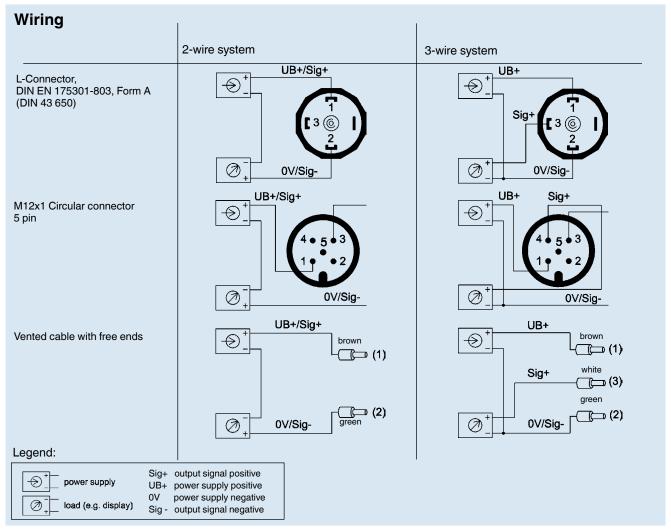
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Dimensions in inches(mm)



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