Pressure Transmitter

KWPT528 Series



Pressure Range

-1... 0 - 60 bar

The KWPT528 Series pressure transmitter is based upon the well proven ceramic technology developed by Ketwells. These transmitters are suitable for applications across a broad spectrum of industries.

- Compact, rugged construction
- Welded without sealing parts, no elastomer seals
- Large selection of connections available
- Saving time by quick cable mounting by the customer with swift connector

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Technical Overview

Pressure Range									
Relative						-1 0 - 60 bar			
Absolute					0 1 - 16 bar				
Operating Conditions									
Medium						Liquids and Gases			
[emperature			Medium	FPM	-15 +120 °C	(-15 +120 °C)			
				EPDM	-40 +120 °C	(-30 +120 °C)			
				NBR	-20 +100 °C				
				MVQ	-40 +125 °C	(-30 +120 °C)			
			t 	FPM	-40 +125 °C	(-30 +120 °C)			
			Ambient		-30 +85 °C	(-25 +85 °C)			
	war-		Storage		-50 +100 °C				
folerable Overload / Rupture Pressur			≤ 4 bar > 4 bar	3.0 x fs 2.5 x fs					
M				DGI	2.00.410				
Materials Cover				Stainless stee	I 1.4404 / AISI 316L				
Plug accommodation					e 50% GF UL 94 V-0				
Materials in contact with medium			Pressure connection		11.4404 / AISI 316L				
viarenae ir cernaer viii mealam			rioudio comiconom	PVDF					
			Sensor	Ceramic Al20					
			Sealing material	FPM, EPDM, NBR, MVQ					
Electrical Overview		Output	Power supply	Load		Current consumption			
2 wire		4 20 mA	7 33 VDC		ltage - 7V / 0.02) Ohm	< 23 mA			
	€x>	4 20 mA	10 30 VDC		Itage - 7V / 0.02) Ohm	< 23 mA			
3 wire		05V	7 33 VDC	>10 kOhm / <		< 7 mA			
		16V	8 33 VDC	>10 kOhm / <		< 7 mA			
		010 V	12 33 VDC	>10 kOhm / <	< 100 nF	< 7 mA			
		0 10 V	12 33 VDC / 24 VAC ± 15%	>10 kOhm / <	< 100 nF	< 7 mA			
		ratiom.10 90%	5 VDC ± 10%	>10 kOhm / <		< 7 mA			
	€x>	ratiom.10 90%		>10 kOhm / <		< 7 mA			
Polarity reversal protection		Short circuit proof a	nd protected against polarity rever	sal. Each conne	ection is protected against cro				
nsulation voltage						500 VDC			
Dynamic Response									
Response time						< 2 ms, 1 ms typ.			
Load cycle						< 100 Hz			
Electrical Connection									
Connector DIN EN 175301-803-A or	C (ind	ustrial standard 9.4	mm)	Protection sto	andard IP65	Protection class III			
Pressure Connection									
nside thread		7/16 - 20 UNF							
		½ -14 NPT							
		G 1/4	with O-Ring seal FPM (-30 +	(35 °C)					
Outside Thread		7/16 - 20 UNF	Sealing cone 45°)						
		1/4 -18 NPT							
		7/16 - 20 UNF	Sealed at back SAE 4 with O-Ring seal FPM (-20 +135 °C)						
		G ¼, G ½, G 1/8	Sealed at back DIN EN ISO 1179-2 with Profile seal ring in FPM (-30 +135 °C)						
		G ¼, G ½	Sealed at back and manometer (combi) with Profile seal ring in FPM (-30 +135 °C)						
		G 1/4	Sealed at back DIN 3852-2 form A						
		R ¼ 1/8 - 27 NPT	EN 10226						
		G 1/8	Sealed at front or sealed at his	ack and mana	meter (combi) with Profile	seal ring in FPM (-30 ±135 °C)			
		M10x1	Sealed at front or sealed at back and manometer (combi) with Profile seal ring in FPM (-30 Sealed at back DIN EN ISO 1179-2 with Profile seal ring in FPM (-30 +135 °C)						
		M20x1.5	Sealed at back DIN EN ISO 1179-2 with Profile seal ring in FPM (-30 +135 °C) Sealed at front and manometer (combi)						
		G 1/4, G 1/2	Sealed at front						
Tests / Admissions									
Electromagnetic compatibility		CE conformity ac	c FN 61326-2-3						
Enhanced EMC protection		EN 50121-3-2							
Shock acc. IEC 68-2-27		100 g, 11 ms half sine wave, all 6 directions, free fall from 1 m on concrete (6x) 40 g for 6 ms, 1000x all 3 directions							
Constant shock acc. IEC 68-2-29									
/ibration acc. IEC 68-2-6			z, 15 25 Hz with amplitude ± 1	5 mm, 1 Octa	ve/min. all 3 directions, 50	constant load			
JL		ANSI/UL 61010-1							
Drinking water approval		NSF/ANSI 61/372	acc. MH60087						
EAC									
Protection against explosion 😉)			ratiom. 10	90%	4 20 mA			
Intrinsic safety «i»				Ex II 1/2 G Ex ia IIC T4 Ga/Gb		Ex II 1/2 G Ex ia IIC T4 Ga/Gb			
				Ex II 1/2 D Ex ia	IIIC T125°C Da/Db	Ex II 1/2 D Ex ia IIIC T125°C Da/Db			
C type examination certificate	200	20 200 2000	3"	SEV 15 ATEX 01	73	SEV 10 ATEX 0145			
Connection to certified intrinsically safe r	circuits with maximu	um values	Ui < 15 VDC; li	< 200 mA; Pi < 750 mW	Ui < 30 VDC; $Ii < 100 mA$; $Pi < 750 m$				
ffective internal inductance and capac	citance	e for versions with plu	igs complying	Li = 0 nH; Ci < 1	150 nF	Li = 0 nH; Ci = 0 nF			
with EN 175301-803-A or M12x1									
ECEX						SEV 16.0007			

Weight - 90 g



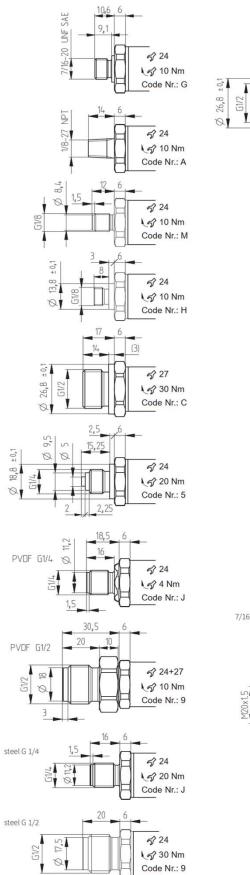
Order Code Selection

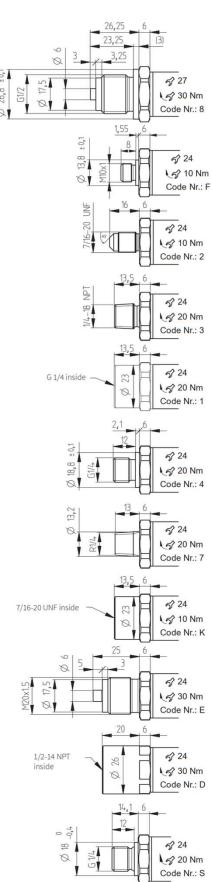
Series	KWPT528.											
Pressure Range		901	-1 0	bar								
(Relative)	911 0 1 bar											
		912 01.6 bar										
	914 0 2.5 bar 915 0 4 bar											
		917	0 6 bar									
	930 0 10 bar 931 0 16 bar											
		932	933 0 40 bar									
		200										
		940	0 60 bar									
Pressure Range		811	0 1 bar									
(Absolute)		812 814										
		200	0 2.5 bar 0 4 bar									
		815 0 4 bar 817 0 6 bar										
		830 0 10 bar										
		831	0 16									
Sealing Material		001	0		uoro elasto	omer (€x}-15	+120 °C	2)			
3			1									
					DM Ethylene propylene (ᡚ-30 +120 °C) R Butadiene Acylonitrile							
			3		ilicone po			. +120 °	C)			
			5		uoro elasto							
Application				0	Standar	d						
				1	For oxygen applications							
				4	With drin	nking wo	ater app	roval NS	SF 61			
Output / Power Supply					1	0 5 V	/ / 7 33	3 VDC				
	6 1						1 6 V / 8 33 VDC					
		2					2 0 10V / 12 33 VDC					
		C 1 10V / 12 33 VDC Enhanced EMC protection										
					8 2 10V / 12 33 VDC / 24 VAC ±15%							
					7 ratiom. 10 90% / 5 VDC ±10%							
						9 ratiom. 10 90% / 5 VDC ±10% Ex protection						
					3 4 20 mA / 7 33 VDC A 4 20 mA / 7 33 VDC Enhanced EMC protection							
											protection	
Electrical Connection	1	4 4 20 mA / 10 30 VDC Ex protection 1 DIN EN 175301-803-A										
Pressure Connection					Inside the		K			aling con	e	
							D	1/2 -141		9	-	
							1	G 1/4 with O-Ring seal FPM				
	Outside thread						2	7/16-20 UNF sealing cone				
								¼ -18 NPT				
							4	G 1/4 sealed at back DIN EN ISO 1179-2 with profile seal ring in FPM				
							5	G ¼ sealed at back and manometer with profile seal ring in FPM				
							7	R 1/4 acc. to EN 10226				
								G 1/2 sealed at back and manometer with profile seal ring in FPM				
								7/16 -20 UNF sealed at back SAE 4 with O-Ring seal FPM				
							Α	1/8 - 27				
							M		ealed at f			
							н				EN ISO 1179-2 with Profile seal ring in FPM	
							J	100000000000000000000000000000000000000	ealed at f		2050.0.6 4.3	
							S	Laction and the			3852-2 form A)	
								G ½ sealed at back DIN EN ISO 1179-2 with profile seal ring in FPM				
							F E		10x1 sealed at back DIN EN ISO 1179-2 with profile seal ring in FPM 20x1.5 sealed at front and manometer (combi)			
							9		aled at f		and manoriferer (comb)	
Pressure Orifice							7	1 Se	Withou	W		
, , ossure Office								2	With			
Material								_	1	Stainless	steel 1.4404 / AISI 316L	
Pressure Connection									2	- contraction -	itside thread, Sealed at front G ¼, G ½, ≤ 16 bar	
Pressure Range											ndicate W and state range on order	
III III										0.00	(e.g.: W0 + 3bar/OUT05V)	
Variation (optional)											(c.g., 110 + obdi/ 001051)	

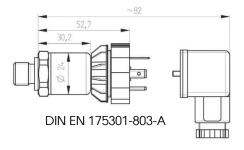
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Dimensions

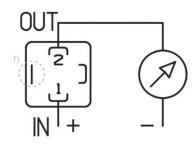






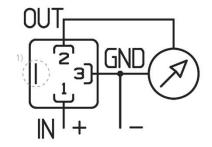
Connector

2 Wire



1 (IN), 2 (OUT) DIN EN 175301-803-A

3 Wire



1 (IN), 2 (OUT), 3 (GND) DIN EN 175301-803-A