

Pressure Transmitter

KWPT508 Series, General Purpose



Pressure Range

0 – 60 bar

- General Purpose 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

The KWPT508 Series General Purpose 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.

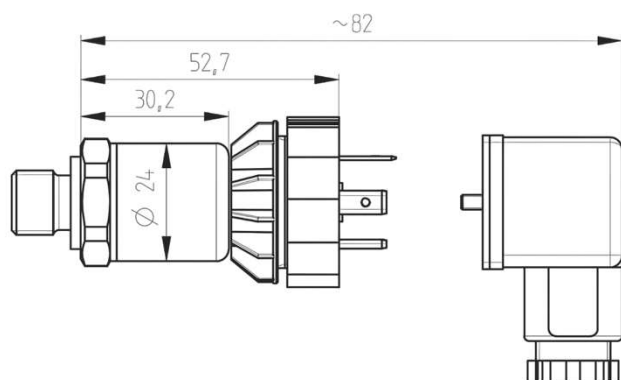
Order Code Selection

Series	KWPT508.			
Pressure Range		911 912 914 915 917 930 931 932 933 940	0 ... 1 bar 0 ... 1.6 bar 0 ... 2.5 bar 0 ... 4 bar 0 ... 6 bar 0 ... 10 bar 0 ... 16 bar 0 ... 25 bar 0 ... 40 bar 0 ... 60 bar	
Sealing Material		0 1 2 3 5	FPM Fluoro elastomer (-15 ... +120 °C) EPDM Ethylene propylene (-30 ... +120 °C) NBR Butadiene Acrylonitrile MVQ Silicone polymer (-30 ... +120 °C) FPM Fluoro elastomer (-30 ... +120 °C)	
Application		0 1 4	Standard For oxygen applications With drinking water approval NSF 61	
Output / Power Supply		3	4 ... 20 mA / 7 ... 33 VDC	
Electrical Connection		1	DIN EN 175301-803-A	
Pressure Connection		8	G ½ sealed at back and manometer with profile seal ring in FPM	
Pressure Orifice		1 2	Without With	
Material		1	Stainless steel 1.4404 / AISI 316L	
Pressure Connection		2	PVDF outside thread, Sealed at front G ¼, G ½, ≤ 16 bar	

Technical Overview

Pressure Range				
Range			0 ... 60 bar	
Operating Conditions				
Medium	Medium	FPM	-15 ... +120 °C	Liquids and Gases (-15 ... +120 °C)
		EPDM	-40 ... +120 °C	(-30 ... +120 °C)
		NBR	-20 ... +100 °C	
		MVQ	-40 ... +125 °C	(-30 ... +120 °C)
	Ambient Storage	FPM	-40 ... +125 °C	(-30 ... +120 °C)
			-30 ... +85 °C	(-25 ... +85 °C)
Tolerable Overload / Rupture Pressure		≤ 4 bar	3.0 x fs	
		> 4 bar	2.5 x fs	
Materials				
Cover			Stainless steel 1.4404 / AISI 316L	
Plug accommodation			Polyarylamide 50% GF UL 94 V-0	
Materials in contact with medium	Pressure connection		Stainless steel 1.4404 / AISI 316L	
			PVDF	
	Sensor		Ceramic Al2O3 (96%)	
	Sealing material		FPM, EPDM, NBR, MVQ	
Electrical Overview				
2 wire	Output 4 ... 20 mA	Power supply 7 ... 33 VDC	Load < (Supply Voltage - 7V / 0.02) Ohm	Current consumption < 23 mA
Dynamic Response				
Response time				< 2 ms, 1 ms typ.
Load cycle				< 100 Hz
Electrical Connection				
Connector DIN EN 175301-803-A or C (industrial standard 9.4 mm)			Protection standard IP65	Protection class III
Pressure Connection				
Outside Thread	G ½	Sealed at back and manometer (combi) with Profile seal ring in FPM (-30 ... +135 °C)		
Tests / Admissions				
Electromagnetic compatibility	CE conformity acc. EN 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)			
Constant shock acc. IEC 68-2-29	40 g for 6 ms, 1000x all 3 directions			
Vibration acc. IEC 68-2-6	20 g, 15 ... 2000 Hz, 15 ... 25 Hz with amplitude ± 15 mm, 1 Octave/min. all 3 directions, 50 constant load			
UL	ANSI/UL 61010-1 acc. E325110			
Drinking water approval	NSF/ANSI 61/372 acc. MH60087			
EAC				
Weight				
~ 90 g				

Dimensions



Connector

