

XMLK Pressure Transmitters

Type XMLK pressure transmitters are characterized by their ceramic pressure-measuring cell. The deformation caused by the pressure is transmitted to the resistors of a Wheatstone bridge silk-screened on the ceramic. The change in resistance is then processed by the integrated electronics to provide an analog output signal.



Table 22.26: Environmental Specifications

Enclosure Rating	IP65 conforming to IEC/EN 60529, NEMA 4
Ambient Air Temperature	For Operation 0 to +80 °C (32 to 176 °F) For Storage -25 to +85 °C (13 to 185 °F)
Precision (Resolution)	Combined sum of linearity, hysteresis, and repeat accuracy $\leq \pm 0.5\%$ of the measuring range Setting tolerance of zero point and measuring range limit <math>< \pm 1\%</math> of the measuring range
Repeat Accuracy	$\pm 0.3\%$ of the measuring range
Current Consumption	4–20 mA: <math>< 20\text{ mA}</math> 0–10 V: <math>< 6\text{ mA}</math>
Rated Supply Voltage	24 Vdc
Voltage Limits	4–20 mA: 8–33 Vdc 0–10 V: 16.2–33 Vdc
Fluids or Products Controlled	Air, fresh water (0 to +80 °C / 32 to 176 °F)
Materials in Contact with Fluid	Steel, type AISI 303 (stainless steel) nitrile (NBR)
Output Response Time	<math>< 2\text{ ms}</math>

Table 22.27: Interpretation of the Catalog Number

Units Without Display	Rated Pressure		Unit of Pressure	O-Ring	Electrical Connection	Output	Fluid Connection	Bulk Pack
	Code	psi / bar						
XMLK 36 mm (1.42 in.) diameter	100		P	2	D	2	3	TQ
	006	0–6	B: bar	2: NBR (Nitrile)	C: DIN 43650A	2: Analog, 4–20 mA	1: G 1/4 A (male)	
	010	0–10	P: psi		D: M12	7: Analog, 0–10 V	3: 1/4"-18 NPT (male)	
	016	0–16			P: Metri-Pack			
	025	0–25						
	100	0–100						
	150	0–150						
	200	0–200						
	300	0–300						

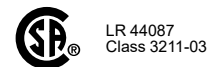
NOTE: Use this table only to interpret the catalog number. Some combinations are not available.

Table 22.28: Selection

Rated Pressure Range	Catalog Number [9]					
	4–20 mA Analog Output			0–10 Vdc Analog Output		
	DIN	M12	Metri-Pack	DIN	M12	Metri-Pack
Bar Version, G 1/4 A Male Fluid Connector						
0–6 bar (0–87 psi)	XMLK006B2C21	XMLK006B2D21	—	XMLK006B2C71	XMLK006B2D71	—
0–10 bar (0–145 psi)	XMLK010B2C21	XMLK010B2D21	—	XMLK010B2C71	XMLK010B2D71	—
0–16 bar (0–232 psi)	XMLK016B2C21	XMLK016B2D21	—	XMLK016B2C71	XMLK016B2D71	—
0–25 bar (0–362.5 psi)	XMLK025B2C21	XMLK025B2D21	—	XMLK025B2C71	XMLK025B2D71	—
PSI Version, 1/4"-18 NPT Male Fluid Connector						
0–100 psi (0–6.9 bar)	XMLK100P2C23	XMLK100P2D23	XMLK100P2P23	XMLK100P2C73	XMLK100P2D73	XMLK100P2P73
0–150 psi (0–10.3 bar)	XMLK150P2C23	XMLK150P2D23	XMLK150P2P23	XMLK150P2C73	XMLK150P2D73	XMLK150P2P73
0–200 psi (0–13.8 bar)	XMLK200P2C23	XMLK200P2D23	XMLK200P2P23	XMLK200P2C73	XMLK200P2D73	XMLK200P2P73
0–300 psi (0–20.7 bar)	XMLK300P2C23	XMLK300P2D23	XMLK300P2P23	XMLK300P2C73	XMLK300P2D73	XMLK300P2P73

Table 22.29: Wiring Configurations (M12)

Output	Pin 1	Pin 3	Pin 4
Analog, 4–20 mA	+ Power supply	Output	—
Analog, 0–10 Vdc	+ Power supply	Output	Ground
Solid State, NPN	+ Power supply	Ground	Output
Solid State, PNP	+ Power supply	Ground	Output



For wiring diagrams, refer to page 22-5.

[9] For a bulk package (25 units), add TQ to the end of the catalog number. The minimum order quantity is 50 units (two bulk packs). When ordering, specify the individual number of units, not the number of bulk packs. Minimum order quantity for factory ordered individual items (non-stock) is 50 pieces.