

**XMLG Pressure Transmitters**

XMLG 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, providing an analog output signal.

Table 22.1: Specifications

Enclosure Rating	IP66, IP67 conforming to IEC/EN 60529, NEMA 4
Ambient Temperature (Operation)	-15 to +85 °C (+5 to +185 °F)
Media Temperature	-15 to +125 °C (+5 to +257 °F)
Precision (Linearity, Repeat Accuracy, Hysteresis)	Transmitters: <0.3%
Repeat Accuracy (PNP/NPN output)	0.1% of the measuring range
Current Consumption	Transmitters: < 20 mA
Maximum Load Current	Transmitters: < 20mA
Rated Voltage	12/24 V for transmitters
Voltage Limits	24 V for transmitters
Fluids Controlled	Hydraulic oils, air, fresh/sea water, corrosive fluids from -15 to +125 °C (+5 to +257 °F)
Materials in Contact with Fluid	Ceramic Al ₂ O ₃ , stainless steel type AISI 303, Viton® FPM, PPS (leakage protection for P> 40 bar)
Output Response Time	< 2 ms

Table 22.2: Interpretation of the Catalog Number (example: XMLG100D23TQ)

XMLG	100			D	2	3	TQ
Units without Display, 22.8 mm diameter	Rated Pressure Range			Electrical Connection	Output	Fluid Connection	Bulk Pack
	Code	psi	bar				
	M01	−14.5 to 0	−1 to 0	D: M12 Q: Integrated quick connect	1: DC Analog, 4–20 mA, shunt calibration 2: Analog, 4–20 mA 7: Analog, 0–10 V (bulk packs only) 11: DC Analog, 0–10 V shunt calibration	1: G 1/4 A (BSP male) 3: 1/4" NPT male 7: 7/16-20 UNF male	
	001	0 to 14.5	0 to 1				
	006	0 to 87.0	0 to 6				
	010	0 to 145	0 to 10				
	016	0 to 232.1	0 to 16				
	025	0 to 362.5	0 to 25				
	100	0 to 1450	0 to 100				
	160	0 to 2329.6	0 to 160				
	250	0 to 3625	0 to 250				
	400	0 to 5800	0 to 400				

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

Table 22.3: Selection

Rated Pressure Range		Fluid Connection	Electrical Connection	Catalog Number ^{[1][2]}	
				Analog Output, 4–20 mA	Analog Output, 0–10 Vdc
-14.5 to 0 psi	-1 to 0 bar	1/4" NPT Male	M12	XMLGM01D23	XMLGM01D73
0 to 14.5 psi	0 to 1 bar			XMLG001D23	XMLG001D73
0 to 87 psi	0 to 6 bar			XMLG006D23	XMLG006D73
0 to 145 psi	0 to 10 bar			XMLG010D23	XMLG010D73
0 to 232 psi	0 to 16 bar			XMLG016D23	XMLG016D73
0 to 362.5 psi	0 to 25 bar			XMLG025D23	XMLG025D73
0 to 1450 psi	0 to 100 bar			XMLG100D23	XMLG100D73
0 to 2320 psi	0 to 160 bar			XMLG160D23	XMLG160D73
0 to 3625 psi	0 to 250 bar			XMLG250D23	XMLG250D73
0 to 5800 psi	0 to 400 bar			XMLG400D23	XMLG400D73

NOTE: For units with a solid-state output, the settings must be specified for each order.

Table 22.4: 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

UL E164865
CCN NKPZLR 44087
Class 3211-03

For wiring diagrams, refer to [page 22-5](#).

^[1] For devices with a switch output or 0–10 Vdc analog output, contact the Sensor Competency Center at 1-800-435-2121.

^[2] 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.