



XMLR and ZMLP Pressure Switches

XMLR and ZMLP are user-friendly electronic pressure switches with an easy-to-read four digit display and finger-operated adjustment buttons for scrolling up and down through the menu functions. Burst pressure is six times the nominal pressure (up to 1,800 bar or 26,100 psi).

Configurable functions:
Display

- Pressure unit of measurement (bar, psi, kPa, or MPa).
- Display refresh time: fast (50 ms), normal (200 ms), slow (600 ms).
- 180° reversed display function.

Analog output (4–20 mA or 0–10 V):

- Offset compensation in the range of ±5% of the nominal pressure.
- Adjustment of analog end point between 75 and 125% of the nominal pressure.

Solid-state output

- NO or NC contact.
- Switching mode of outputs: Hysteresis (pumping) or Window (control).
- Time delay both on trip and on reset (adjustable from 0 to 50 s, in steps of 1 s).

Diagnostic functions

- Illumination of all the segments of the display on each power-up, enabling checking of their operation.
- Diagnostic function for checking correct operation of the sensor.
- Saving of min. and max. pressures measured by the sensor and their subsequent display.

Outputs change state when the pressure ranges outside the window settings.

Table 22.32: Interpretation of the Catalog Number (example: XMLRM01G0T25)

XMLR	M01	G	0	T	2	5
Pressure range						
-1 – +0	M01					
1	001					
2.5	002					
10	010					
16	016					
25	025					
40	040					
100	100					
160	160					
250	250					
400	400					
600	600					

Pressure technology	
Gauge ceramic	G
Gauge metal	M

Digital output	
No digital output	0
1 DC Digital output	1
2 DC Digital output	2

Output / input type	
No digital output / Test input	T
PNP	P
NPN	N

Analog output	
No analog output	0
DC analog 4 – 20 mA	2
DC analog 0 – 10 V	7

Fluid entry	
G 1/4 (female) DIN 3852-E	5
1/4 in. – 18 NPT (female)	6
7/16 in. – 20 UNF-2B (female)	9

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

Table 22.33: Specifications

Enclosure Rating	IP67 NEMA 4, 6, 12, 13	
Ambient Air Temperature for Operation	DC Models: –25 to +80 °C (–13 to +176 °F) AC Models: –25 to +80 °C (–13 to +176 °F)	
Media Temperature	–15 to +80 °C (+5 to +176 °F)	
Precision	Analog Output	≤0.6% of the measurement range, output offset <200 mV
	Digital Output	≤0.6% of the measurement range
Repeat Accuracy (PNP/NPN output)	≤0.5% of the measurement range	
Maximum Load Current	DC: 200 mA for 17–33 Vdc; AC: 2.5A AC15 C300	

Table 22.34: ZMLP Selection

Output 1	Output 2	Switching Mode	Catalog Number
4–20 mA	PNP	Hysteresis	ZMLPA2PSH
		Windows	ZMLPA2PSW
	NPN	Hysteresis	ZMLPA2NSH
		Windows	ZMLPA2NSW
PNP	PNP	Hysteresis	ZMLPDPSSH
NPN	NPN	Hysteresis	ZMLPDNNSH

Table 22.35: XMLR Selection

Fluid entries	Outputs			Size							
	4–20 mA	PNP	NPN	–1 bar	1 bar	10 bar	16 bar	40 bar	250 bar	400 bar	
1/4"-18NPT	1	—	1	XMLRM01G1N26	XMLR001G1N26	XMLR010G1N26	XMLR016G1N26	XMLR040G1N26	XMLR250M1N26	XMLR400M1N26	
	—	—	2	XMLRM01G2N06	XMLR0012G2N06	XMLR010G2N06	XMLR016G2N06	XMLR040G2N06	XMLR250M2N06	XMLR400M2N06	
G1/4A	1	—	—	XMLRM01G0T25	XMLR001G0T25	XMLR010G0T25	XMLR016G0T25	XMLR040G0T25	XMLR250M0T25	XMLR400M0T25	
	—	1	—	XMLRM01G1P25	XMLR001G1P25	XMLR010G1P25	XMLR016G1P25	XMLR040G1P25	XMLR250M1P25	XMLR400M1P25	
	—	2	—	XMLRM01G2P05	XMLR001G2P05	XMLR010G2P05	XMLR016G2P05	XMLR040G2P05	XMLR250M2P05	XMLR400M2P05	

For more options for fluid entry, output, and size, visit www.schneider-electric.com.



File: E164865
CCN / NKPZ



File: LR44087
Class: 3211-03

