

XMLR010G0T26

Electronic pressure sensors, Pressure sensors
XM, XMLR 10 bar, 1/4" 18 NPT, 24 VDC, 4...20
mA, M12



Main

Range of product	Telemecanique Pressure sensors XM
Product or component type	Electronic pressure sensors
Pressure sensor type	Pressure transmitter
Pressure switch type of operation	Pressure transmitter
Device short name	XMLR
Pressure rating	999.7 KPa 10 bar
Maximum permissible accidental pressure	40 Bar 4 MPa 3999.0 kPa
Destruction pressure	3999.0 KPa 40 Bar 4 MPa
Controlled fluid	Fresh water (0...80 °C) Air (-20...80 °C) Hydraulic oil (-20...80 °C) Refrigeration fluid (-20...80 °C)
Fluid connection type	1/4" - 18 NPT (female)
[Us] rated supply voltage	24 V DC SELV (voltage limits: 17...33 V)

Complementary

Current consumption	<= 50 mA
Electrical connection	Male connector M12, 4 pins
Analogue output function	4...20 mA
Type of output signal	Analogue
Analogue output function	4...20 mA
Scale type	Fixed differential
Materials in contact with fluid	Ceramic 316L stainless steel Fluorocarbon FKM (Viton)
Front material	Polyester
Housing material	Polyacrylamide 316L stainless steel
Operating position	Any position, but disposals can falsify the measurement in case of upside down mounting
Protection type	Reverse polarity Overvoltage protection Short-circuit protection Overload protection
Response time on output	<= 10 ms for analog output
Display type	4 digits 7 segments
Display response time type	Fast 50 ms Normal 200 ms Slow 600 ms
Maximum delay first up	300 ms
Overall accuracy	<= 1 % of the measuring range
Linearity error on analogue output	<= 0.5 % of the measuring range
Hysteresis on analogue output	<= 0.2 % of the measuring range
Measurement accuracy on switching output	<= 0.6 % of the measuring range

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither TMSS Holding nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

Repeat accuracy	<= 0.2 % of the measuring range
Drift of the sensitivity	+/- 0.03 % of measuring range/°C
Drift of the zero point	+/- 0.1 % of measuring range/°C
Display accuracy	<= 1 % of the measuring range
Mechanical durability	10000000 cycles
Depth	42 mm
Height	100 mm
Width	41 mm
Net weight	0.212 kg
[Uimp] rated impulse withstand voltage	0.5 kV DC
Electromagnetic compatibility	<p>Susceptibility to electromagnetic fields: 10 V/m 80...2000 MHz conforming to IEC 61000-4-3</p> <p>Immunity to conducted RF disturbances: 10 V 0.15...80 MHz conforming to IEC 61000-4-6</p> <p>Surge immunity test: 1 kV conforming to IEC 61000-4-5</p> <p>Electrical fast transient/burst immunity test: 2 kV conforming to IEC 61000-4-4</p> <p>Electrostatic discharge immunity test: 8 kV air, 4 kV contact conforming to IEC 61000-4-2</p>

Environment

Marking	CE
Product certifications	cULus
Standards	IEC 61326-2-3 UL 61010-1
Ambient air temperature for operation	-20...80 °C
Ambient air temperature for storage	-40...80 °C
IP degree of protection	IP65 conforming to IEC 60529 IP67 conforming to IEC 60529
Vibration resistance	20 gn (f= 10...2000 Hz) conforming to IEC 60068-2-6
Shock resistance	50 gn conforming to IEC 60068-2-27

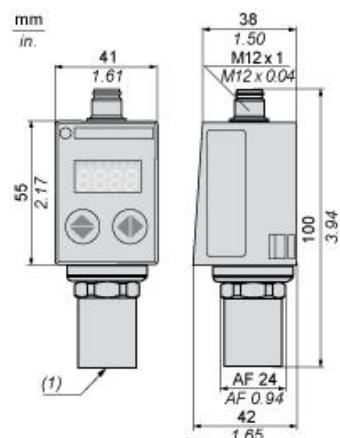
Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	6.500 cm
Package 1 Width	7.500 cm
Package 1 Length	12.700 cm
Package 1 Weight	209.000 g
Unit Type of Package 2	S02
Number of Units in Package 2	20
Package 2 Height	15 cm
Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	4.527 kg

Offer Sustainability

California proposition 65	WARNING: This product can expose you to chemicals including: Diisobutyl phthalate (DINP), which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov
For all Reach Rohs enquiries contact us at	sustainability@tesensors.com

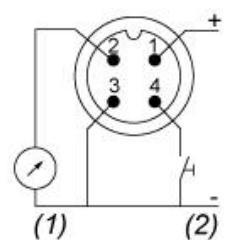
Dimensions



(1) Fluid entry: 1/4"-18NPT female

Connections and Schema

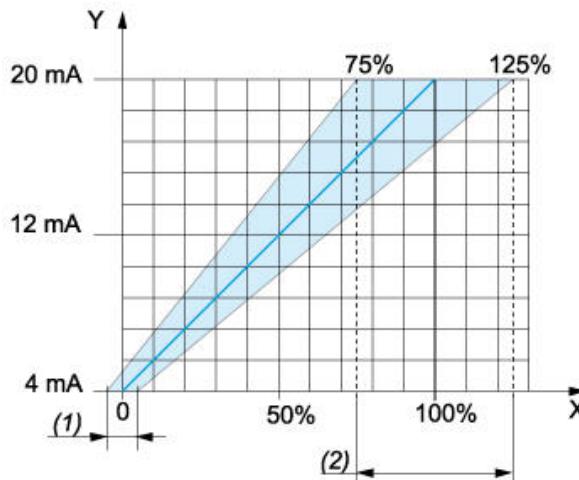
Connector Wiring



- (1) I Out or V Out
- (2) Test Input

Analogue Output Description

Analogue Output Signal



X : Pressure

Y : Analogue output signal

- (1) An offset of +/-5% of nominal pressure can be compensated (with Cof Configuration menu. Cof: Offset Compensation)
- (2) The analogue curve can be adjusted from -25% to +25% of nominal pressure (with AEP Configuration menu. AEP: analogue end point).