

Electronic pressure sensors, Pressure sensors
XM, XMLR 250 bar, G 1/4, 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	24959.02 KPa 250 bar
Maximum permissible accidental pressure	74980.5 KPa 750 Bar 75 MPa
Destruction pressure	150 MPa 149961.0 KPa 1500 bar
Controlled fluid	Fresh water (0...80 °C) Air (-20...80 °C) Hydraulic oil (-20...80 °C) Refrigeration fluid (-20...80 °C)
Fluid connection type	G 1/4 (female) conforming to DIN 3852-Y
[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	316L stainless steel
Front material	Polyester
Housing material	316L stainless steel Polyacrylamide
Operating position	Any position, but disposals can falsify the measurement in case of upside down mounting
Protection type	Reverse polarity Overload protection Overvoltage protection Short-circuit 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
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	88 mm
Width	41 mm
Net weight	0.186 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

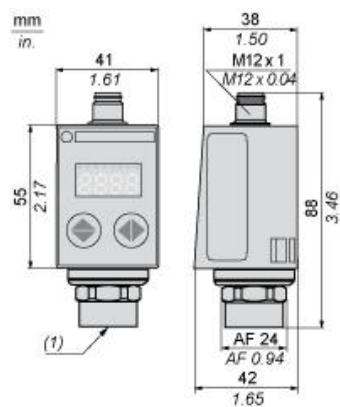
Packing Units

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	13.000 cm
Package 1 Weight	184.000 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	4.020 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

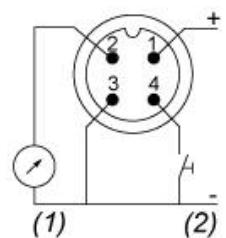
Dimensions



(1) Fluid entry: G 1/4 A female

Connections and Schema

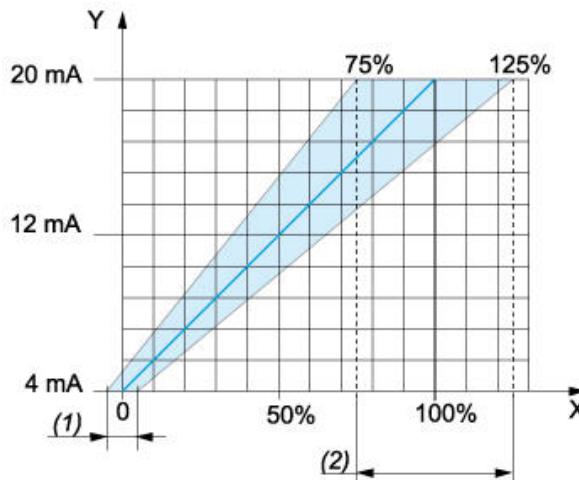
Connector Wiring



(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).