
Electronic sensors for pressure control

OsiSense XM

Catalogue



Simply easy!™

Selection guide pages 2 to 7
General pages 8 to 11

XMLK pressure transmitters for water

- **Presentation** page 12
- **Description** page 12
- **Functions** page 12
- **References**
 - Pressure transmitters, sizes in bar page 13
 - Pressure transmitters, sizes in psi page 14
 - Accessories page 15

XMLG pressure transmitters, pressure and vacuum switches

- **Presentation** page 16
- **Description** page 16
- **Functions** page 16
- **References**
 - Pressure transmitters, sizes in bar pages 17 to 19
 - Pressure and vacuum switches, sizes in bar page 20
 - Accessories and replacement parts page 21

XMLP pressure transmitters

- **Presentation** page 22
- **Functions** page 23
- **References**
 - Pressure transmitters, sizes in bar pages 24 to 31
 - Pressure transmitters, sizes in psi pages 32 to 36
 - Accessories page 37

ZMLP switches with 4-digit display

- **Presentation** page 38
- **Description** page 38
- **Functions** page 38
- **References**
 - Switches with a display page 39
 - Accessories page 39

XMLR pressure sensors with 4-digit display

- **General presentation** pages 40 and 41
- **Presentation** page 42
- **Description** page 42
- **Functions** page 42
- **References**
 - Pressure sensors pages 43 to 46
 - Accessories page 47
- **Product reference index** pages 48 to 49

Electronic pressure sensors

OsiSense XM

Applications	Type of installation	Control circuits
	Type of sensor and features	



Sizes	0...25 bar (0...362 psi) 0...300 psi (0...20.7 bar)
Fluids or products controlled	Air, fresh water (0...+80°C)
Fluid connection	G 1/4 A DIN 3852-E male (2) 1/4"-18 NPT male (2)
Rated supply voltage	12/24 V $\ddot{=}$ (4...20 mA), 24 V $\ddot{=}$ (0...10 V)
Voltage limits	8...33 V $\ddot{=}$ (4...20 mA), 16.2...33 V $\ddot{=}$ (0...10 V)
Current consumption	< 20 mA (4...20 mA), < 6 mA (0...10 V)
Electrical connection	M12, EN 175301-803-A (ex-DIN 43650A) or Packard Metri-Pack 150 connector (1)
Type of output	Analogue, 4...20 mA or 0...10 V
Materials in contact with fluid	Ceramic Al ₂ O ₃ , stainless steel type AISI 303, nitrile (NBR)
Output response time	< 2 ms
Precision including linearity, hysteresis, repeat accuracy	± 1% of the measuring range
Service life	> 10 million operating cycles
Dimensions of case (mm)	Width x height x depth Ø 36 x 67.5
Conforming to standards	CE, ROHS, EN/IEC 61326-2-3
Product certifications	UL, CSA conforming to UL 508 and CSA-22.2 no. 14, EAC
Ambient air temperature for operation	0...+80°C
Degree of protection	IP 65 conforming to EN/IEC 60529, NEMA Type 4 conforming to UL/CSA
Vibration resistance	20 gn (9...2000 Hz) conforming to EN/IEC 60068-2-6
Shock resistance	25 gn (half sine wave 11 ms) conforming to EN/IEC 60068-2-27
Type reference	XMLK●●●B2C●●, XMLK●●●B2C●●TQ (3) XMLK●●●B2D●●, XMLK●●●B2D●●TQ (3) XMLK●●●P2C●●, XMLK●●●P2C●●TQ (3) XMLK●●●P2D●●, XMLK●●●P2D●●TQ (3) XMLK●●●P2P●●, XMLK●●●P2P●●TQ (3)
Pages	13 and 14

Other versions
 (1) For other electrical connections, please consult our Customer Care Centre.
 (2) For other fluid connections, please consult our Customer Care Centre.
 (3) Sold in lots of 25, minimum order quantity 50.

Control circuits	Devices without display	Pressure and vacuum switches Factory set switching thresholds Solid-state NPN or PNP output
	Pressure transmitters Analogue output, 4...20 mA or 0...10 V.	



Sizes	- 1...400 bar (- 14.5 psi...5800 psi)	
Fluids or products controlled	Fresh water (0...+125°C) Air, hydraulic oils, corrosive fluids (- 15...+125°C)	
Fluid connection	G 1/4 A DIN 3852-E male or 1/4"-18 NPT male (2)	
Rated supply voltage	12/24 V $\ddot{=}$ (4...20 mA) 24 V $\ddot{=}$ (0...10 V)	12/24 V $\ddot{=}$
Voltage limits	8...33 V $\ddot{=}$ (4...20 mA) 11.4...33 V $\ddot{=}$ (0...10 V)	8...33 V $\ddot{=}$
Current consumption	< 20 mA	< 4 mA
Electrical connection	M12 connector (1) or integrated quick connection (4)	
Type of output	Analogue, 4...20 mA or 0...10 V	Solid-state, NPN or PNP, NC 150 mA, 12/24 V $\ddot{=}$
Materials in contact with fluid	Ceramic Al ₂ O ₃ , stainless steel type AISI 303, FPM (Viton) PPS (Leakage protection for P > 40 bar)	
Output response time	< 2 ms	
Precision including linearity, hysteresis, repeat accuracy	± 0.3% of the measuring range	
Service life	> 10 million operating cycles	
Dimensions of case (mm)	Ø 22.8 x 58.1 (with M12 connector) Ø 22.8 x 66.1 (with quick connection)	
Conforming to standards	CE, ROHS, EN/IEC 61326-2-3	
Product certifications	UL, CSA conforming to UL 508 and CSA-22.2 no. 14, EAC	
Ambient air temperature for operation	- 15...+85°C	
Degree of protection	IP 66, IP 67 conforming to EN/IEC 60529, NEMA Type 4 conforming to UL/CSA	
Vibration resistance	20 gn (9...2000 Hz) conforming to EN/IEC 60068-2-6	
Shock resistance	25 gn (half sine wave 11 ms) conforming to EN/IEC 60068-2-27	
Type reference	XMLG●●●D21, XMLG●●●D71 XMLG●●●D21TQ (3) XMLG●●●D71TQ (3) XMLG●●●Q21TQ (3) XMLG●●●Q71TQ (3)	XMLG●●●D31TQ (3) XMLG●●●D41TQ (3) XMLG●●●Q31TQ (3) XMLG●●●Q41TQ (3)
Pages	17 to 20	

(4) Phoenix Contact "Quickon" integrated connection.

Electronic pressure sensors

OsiSense XM

Applications	Type of installation
	Type of sensor and features

Control circuits
Devices without display
Pressure transmitters
Analogue output, 4...20 mA, 0...10 V or ratiometric output, 0.5...4.5 V



Sizes	-1...0 bar, -1...5 bar (-14.5...72.5 psi), 0...6 bar (0...87 psi) -14.5...0 psi, -14.5...60 psi (-1...4.14 bar), 0...50 psi (0...3.45 bar)								
Fluids or products controlled	Fresh water (0...+ 125 °C) Air, hydraulic oils (- 15...+ 125 °C)								
Fluid connection	G 1/4 A DIN 3852-E male, 1/4"-18NPT male, SAE 7/16-20 UNF-2B female								
Rated supply voltage	12/24 V $\bar{\bar{}}$ (4...20 mA), 24 V $\bar{\bar{}}$ (0...10 V), 5 V $\bar{\bar{}}$ (0.5...4.5 V)								
Voltage limits	7...33 V $\bar{\bar{}}$ (4...20 mA), 12...33 V $\bar{\bar{}}$ (0...10 V), 4.5...5.5 V $\bar{\bar{}}$ (0.5...4.5 V)								
Current consumption	< 23 mA (4...20 mA), < 7 mA (0...10 V), < 5 mA (0.5...4.5 V)								
Electrical connection	M12 connector, EN 175301-803-A (ex DIN 43650A) connector, Packard Metri-Pack 150 connector or 2 m PVC cable								
Type of output	Analogue, 4...20 mA, 0...10 V or 0.5...4.5 V								
Materials in contact with fluid	Ceramic Al ₂ O ₃ , stainless steel type AISI 316L, FPM fluorocarbon								
Output response time	< 2 ms at 92% of maximum deviation								
Precision including linearity, hysteresis, repeat accuracy	± 0.5% of the measuring range (except for size 0.5 bar: ±1.5% and size 0.25 bar: ± 2%)								
Service life	> 10 million operating cycles								
Dimensions of case (mm)	Width x height x depth Ø 26 x 32.3 (with M12 connector) Ø 26 x 55 (with EN 175301-803-A connector) Ø 26 x 49.2 (with Packard Metri-Pack 150 connector) Ø 26 x 57 (with cable)								
Conforming to standards	CE, ROHS, EN/IEC 61326-2-3, NSF ANSI 61								
Product certifications	cULus conforming to UL 61010-1 and CSA-C22.2 n° 61010-1, EAC								
Ambient air temperature for operation	- 30...+ 85 °C								
Degree of protection	IP 65 or IP 67 conforming to EN/IEC 60529 IP 69K conforming to DIN 40050 (versions with M12 connector)								
Vibration resistance	20 gn (10...2000 Hz) conforming to EN/IEC 60068-2-64								
Shock resistance	100 gn (half sine wave 11 ms) conforming to EN/IEC 60068-2-27								
Type reference	<table border="0"> <tr> <td>XMLP●●●●D●●F</td> <td>XMLP●●●●D●●FQ (1)</td> </tr> <tr> <td>XMLP●●●●C●●F</td> <td>XMLP●●●●C●●FQ (1)</td> </tr> <tr> <td>XMLP●●●●L●●F</td> <td>XMLP●●●●L●●FQ (1)</td> </tr> <tr> <td>XMLP●●●●R●●3F</td> <td>XMLP●●●●R●●3FQ (1)</td> </tr> </table>	XMLP●●●●D●●F	XMLP●●●●D●●FQ (1)	XMLP●●●●C●●F	XMLP●●●●C●●FQ (1)	XMLP●●●●L●●F	XMLP●●●●L●●FQ (1)	XMLP●●●●R●●3F	XMLP●●●●R●●3FQ (1)
XMLP●●●●D●●F	XMLP●●●●D●●FQ (1)								
XMLP●●●●C●●F	XMLP●●●●C●●FQ (1)								
XMLP●●●●L●●F	XMLP●●●●L●●FQ (1)								
XMLP●●●●R●●3F	XMLP●●●●R●●3FQ (1)								
Pages	24 to 36								

(1) Sold in lots of 25.
(2) Sold in lots of 40.

Control circuits
Devices without display
Pressure transmitters
Analogue output, 4...20 mA, 0...10 V or ratiometric output, 0.5...4.5 V



Sizes	- 1...9 bar (- 14.5...130 psi), 0...600 bar (0...8700 psi), 0...10,000 psi (0 bar...690 bar)						
Fluids or products controlled	Fresh water (0...+ 120 °C) Air, hydraulic oils, refrigeration fluids (- 20...+ 120 °C)						
Fluid connection	G 1/4 A DIN 3852-E male (≤ 40 bar), G 1/4 A DIN 3852-A male (≥ 100 bar) SAE 7/16-20 UNF-2A male, SAE 7/16-20 UNF-2B female or 1/4"-18 NPT male						
Rated supply voltage	12/24 V $\bar{\bar{}}$ (4...20 mA), 24 V $\bar{\bar{}}$ (0...10 V), 5 V $\bar{\bar{}}$ (0.5...4.5 V)						
Voltage limits	8...30 V $\bar{\bar{}}$ (4...20 mA), 14...30 V $\bar{\bar{}}$ (0...10 V), 4.75...5.25 V $\bar{\bar{}}$ (0.5...4.5 V)						
Current consumption	< 20 mA (4...20 mA), < 10 mA (0...10 V), < 5 mA (0.5...4.5 V)						
Electrical connection	M12, EN 175301-803-A (ex-DIN 43650A) or Packard Metri-Pack 150 connector						
Type of output	Analogue, 4...20 mA, 0...10 V or 0.5...4.5 V						
Materials in contact with fluid	17-4PH stainless steel, stainless steel type AISI 304, FKM fluorocarbon (Viton)						
Output response time	< 5 ms at 90% of maximum deviation						
Precision including linearity, hysteresis, repeat accuracy	± 0.5% of the measuring range						
Service life	> 10 million operating cycles						
Dimensions of case (mm)	Width x height x depth Ø 30 x 26 (with M12 connector) Ø 30 x 25 (with EN 175301-803-A connector) Ø 30 x 37 (with Packard Metri-Pack 150 connector)						
Conforming to standards	CE, ROHS, EN/IEC 61326-1						
Product certifications	cULus conforming to UL 61010-1 and CSA-C22.2 no. 61010-1, EAC						
Ambient air temperature for operation	- 30...+ 120 °C						
Degree of protection	IP 65 or IP 67 conforming to EN/IEC 60529 IP 69K conforming to DIN 40050 (versions with M12 connector)						
Vibration resistance	20 gn (10...2000 Hz) conforming to EN/IEC 60068-2-64						
Shock resistance	25 gn (half sine wave 11 ms) conforming to EN/IEC 60068-2-27						
Type reference	<table border="0"> <tr> <td>XMLP●●●●B●●1V</td> <td>XMLP●●●●B●●1VQ (2)</td> </tr> <tr> <td>XMLP●●●●B●●●</td> <td>XMLP●●●●B●●●Q (2)</td> </tr> <tr> <td>XMLP●●●●P●●3</td> <td>XMLP●●●●P●●3Q (2)</td> </tr> </table>	XMLP●●●●B●●1V	XMLP●●●●B●●1VQ (2)	XMLP●●●●B●●●	XMLP●●●●B●●●Q (2)	XMLP●●●●P●●3	XMLP●●●●P●●3Q (2)
XMLP●●●●B●●1V	XMLP●●●●B●●1VQ (2)						
XMLP●●●●B●●●	XMLP●●●●B●●●Q (2)						
XMLP●●●●P●●3	XMLP●●●●P●●3Q (2)						
Pages	24 to 36						

More technical information on www.tesensors.com

Electronic pressure sensors

OsiSense XM

Applications	Type of installation	Control circuits
	Type reference and features	
		Switches with 4-digit display
		- With an analogue output, 4...20 mA and a switching output, PNP or NPN type - With two PNP or NPN switching outputs



Sizes	-	
Fluids or products controlled	-	
Fluid connection	-	
Display	7 segment/4-digit display. Pressure units in bar, psi or pascal. 41 display ranges can be selected, from -14.5 to 6000	
Rated supply voltage	24 V $\overline{---}$	
Voltage limits	17...33 V $\overline{---}$	
Current consumption	\leq 50 mA	
Electrical connection	M12, 4-pin connector	
Type of output	■ Analogue, 4...20 mA + one switching output, PNP or NPN, 200 mA	■ 2 switching outputs, PNP or NPN, 200 mA
Materials in contact with fluid	-	
Output response time	\leq 3 ms	
Precision including linearity, hysteresis, repeat accuracy	\pm 1% of the measuring range	
Service life	> 10 million operating cycles	
Dimensions of case (mm)	Width x height x depth 41 x 77 x 42	
Conforming to standards	CE, ROHS, EN/IEC 61000-6-2, EN/IEC 61000-6-4	
Product certifications	cULus conforming to UL 508 and CSA-C22.2 no. 14, EAC	
Ambient air temperature for operation	-25...+70°C	
Degree of protection	IP 65 or IP 67 conforming to EN/IEC 60529, IP 69K conforming to DIN 40050	
Vibration resistance	5 gn (10...2000 Hz) conforming to EN/IEC 60068-2-6	
Shock resistance	25 gn conforming to EN/IEC 60068-2-27	
Type reference	ZMLPA1•2S●	ZMLPA2•0SH
Pages	39	

Other versions (1) For other fluid connections, please consult our Customer Care Centre.

Control circuits	Pressure transmitters with 4-digit display	Pressure and vacuum switches with 4-digit display
	- With one analogue output, 4...20 mA or 0...10 V and one input for diagnosis	- With one analogue output, 4...20 mA or 0...10 V and one switching output, PNP or NPN type - With two switching outputs, PNP or NPN type - With one analogue output, 4...20 mA, and two switching outputs, PNP or NPN type



Sizes	- 1...600 bar (-14.5 psi...8700 psi)	
Fluids or products controlled	Fresh water (0...+80°C). Air, hydraulic oils, refrigeration fluids (-20...+80°C)	
Fluid connection	G 1/4 A DIN3852-Y female, 1/4"-18 NPT female or SAE 7/16-20 UNF female (1)	
Display	7-segment/4-digit display. Pressure units in bar, psi or pascal. Signalling LED for the pressure unit and output state.	
Rated supply voltage	24 V $\overline{---}$	
Voltage limits	17...33 V $\overline{---}$	
Current consumption	\leq 50 mA	
Electrical connection	M12, 4-pin connector	M12, 4 or 5-pin connector
Type of output	■ Analogue, 4...20 mA or 0...10 V	■ Analogue, 4...20 mA or 0...10 V + one switching output, PNP or NPN, 250 mA ■ Two switching outputs, PNP or NPN, 250 mA ■ Analogue, 4...20 mA + two switching outputs, PNP or NPN, 250 mA
Materials in contact with fluid	\leq 40 bar: Ceramic Al_2O_3 , stainless steel 316L, FPM fluorocarbon \geq 100 bar: Stainless steel 316L, FKM fluorocarbon (Viton)	
Output response time	\leq 10 ms	\leq 10 ms (analogue output) \leq 5 ms (switching output)
Precision including linearity, hysteresis, repeat accuracy	\pm 1% of the measuring range	
Service life	> 10 million operating cycles	
Dimensions of case (mm)	41 x 93 x 42	
Conforming to standards	CE, ROHS, EN/IEC 61326-2-3, NFS ANSI 61	
Product certifications	cULus conforming to UL 61010-1 and CSA-C22.2 no. 61010-1, EAC	
Ambient air temperature for operation	-20...+80°C	
Degree of protection	IP 66, IP 67 conforming to EN/IEC 60529	
Vibration resistance	20 gn (10...2000 Hz) conforming to EN/IEC 60068-2-6	
Shock resistance	50 gn conforming to EN/IEC 60068-2-27	
Type reference	XMLR●●●G0●●● XMLR●●●M0●●●	XMLR●●●G1●●●, XMLR●●●G2●●● XMLR●●●M1●●●, XMLR●●●M2●●●
Pages	43 to 46	

Other versions (1) For other fluid connections, please consult our Customer Care Centre.

Electronic pressure sensors

OsiSense XM

For control circuits

Functions

Electronic pressure sensors

The function of electronic pressure sensors is the control and measurement of pressure or vacuum levels in hydraulic or pneumatic systems. Being electronic, the sensors have no mechanical moving parts.

Pressure transmitters

Pressure transmitters convert the pressure into an electrical signal which is proportional to the applied pressure. Their high precision makes them suitable for all industrial applications requiring pressure/vacuum display, control or regulation.

Being very robust, they are equally suitable for applications involving high operating rates.

Pressure and vacuum switches

Electronic pressure switches and vacuum switches convert a change in pressure into a digital electrical signal when the switching points which have been set are reached.

They are distinguished from electromechanical pressure switches and vacuum switches by their very wide switching adjustment ranges.

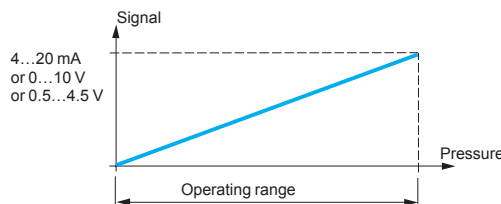
Their robustness, together with their excellent adherence to the set values over a period of time, make them ideal for applications involving high operating rates. In addition, the high repeat accuracy and fast response time of these sensors make them equally suitable for applications requiring accurate pressure regulation and monitoring.

Note: Some sensors in the OsiSense XM ranges have both one analogue output and one or two digital outputs.

Operating principle

Pressure transmitters

These devices provide an analogue output which has a signal proportional to the pressure applied to the sensor. Depending on the model, this signal can be 4...20 mA, 0...10 V or 0.5...4.5 V.



Pressure and vacuum switches

These devices have one or two digital outputs depending on the model. The status of these outputs is defined by high (SP) and low (rP) switching points which can usually be independently adjusted.

Pressure switches and vacuum switches can have 2 different switching modes:

- Hysteresis mode, particularly suited to pumping applications (filling/emptying).
- Window mode, more suitable for applications where the pressure is regulated.

The switching outputs can usually be configured as normally open (NO) or normally closed (NC).

In addition, for the OsiSense XMLR range (1), output switching can be delayed for between 1 and 50 seconds, both on the pressure rising edge and falling edge.

(1) See pages 40 to 47.

Electronic pressure sensors

OsiSense XM

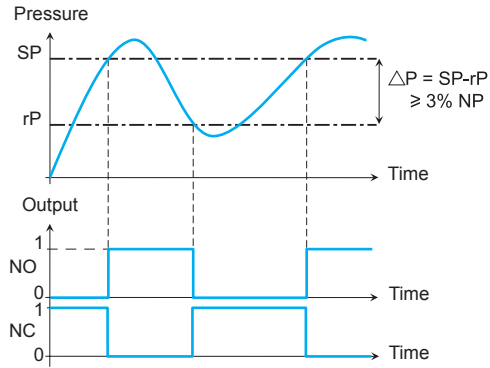
For control circuits

Operating principle (continued)

Pressure and vacuum switches (continued)

Switching output: hysteresis mode

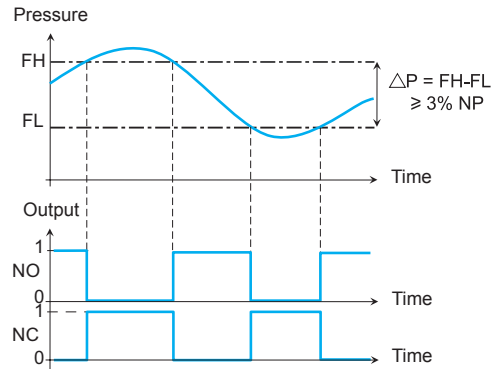
Hysteresis mode is generally used for pumping and/or emptying applications.



SP: High switching point
 rP: Low switching point
 NP: Nominal pressure

Switching output: Window mode

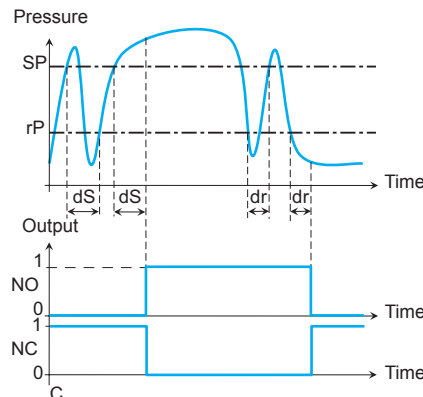
Window mode is generally used for pressure regulation applications.



FH: High switching point
 FL: Low switching point
 NP: Nominal pressure

Switching output: time delay mode

Time delay mode is generally used to filter fast transient pressures. The output only switches after a "dS" and "dr" time period which can be set between 0 and 50 seconds.



FH: High switching point
 FL: Low switching point
 NP: Nominal pressure

Electronic pressure sensors

OsiSense XM

For control circuits

Terminology

Nominal pressure NP or size

The nominal pressure is the maximum pressure or vacuum which can be measured by the sensor.

Maximum permissible accidental pressure

This is the maximum pressure, excluding pressure surges, to which the pressure sensor can occasionally be subjected without being damaged.

Destruction pressure

The pressure value which if exceeded is likely to cause serious damage to the sensor i.e. leaking, bursting, component failure, etc.

High switching point (SP)

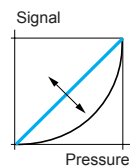
This is the upper pressure setting selected on the pressure or vacuum switch at which the electrical output changes state when this pressure value is reached.

Low switching point (rP)

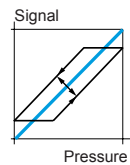
This is the lower pressure setting selected on the pressure or vacuum switch at which the electrical output changes state when this pressure value is reached.

Precision

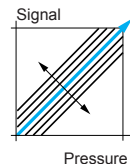
The sensor's overall precision is the result of several error sources linked to linearity, hysteresis, repeat accuracy and setting tolerances. It is expressed as a % of the nominal pressure.



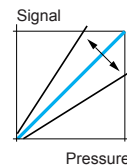
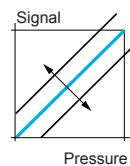
The linearity is the maximum deviation between the actual transmitter curve and the nominal curve.



The hysteresis is the maximum deviation between the rising pressure curve and the falling pressure curve.



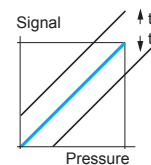
The repeat accuracy is the maximum drift encountered after several successive pressure variation cycles.



The setting tolerances are the calibration tolerances regarding the zero point and sensitivity set during sensor manufacture (gradient of output signal curve from the pressure transmitter).

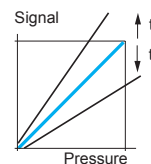
Temperature drift

Although the pressure sensor is compensated electronically, its accuracy is still slightly influenced by the temperature to which it is subjected.



Zero point drift

This is proportional to the temperature and is expressed as % NP/°C.



Sensitivity drift

This is proportional to the temperature and is expressed as % NP/°C.

(NP: Nominal pressure)

Main criteria for selecting an electronic pressure sensor

The fluid or gas to be controlled

Our products, including the materials used, are compatible with the majority of fluids or gases encountered in industrial applications.

However some particularly corrosive fluids (sea water, for example) can affect product operation sooner or later.

The fluid temperature can also be an aggravating factor.

The materials in contact with the fluid are described in the technical data sheets which can be found on our website, www.tesensors.com.

If in doubt about compatibility, contact our Customer Care Centre.

The maximum pressure of the fluid to be controlled

The maximum pressure of the fluid to be controlled will determine the nominal pressure (or size) of the product to be used.

Our product ranges include a number of sizes which cover a pressure range from -1 to 600 bar.

It is advisable to choose a size just above the maximum pressure to be controlled, in order to have the best possible accuracy.

However, sometimes it is necessary to take account of transient pressure surges caused by the system operation (for example: the phenomenon of water hammer) and choose a size well above the maximum pressure to be controlled.

The fluid entry

There are a number of formats for the fluid and pneumatic connections.

Our ranges have the 3 most common types of fluid entry:

- G 1/4
- 1/4" - 18 NPT
- SAE 7/16-20UNF

The type and configuration of the electrical output(s)

Depending on the product range, each sensor reference has one, two or three outputs which may be analogue or digital.

It is important to clearly identify the function(s) the pressure sensor has to fulfil in the control system, in order to select the correct product.

The electrical connection

All products in the OsiSense XM ranges offer connection via an M12 x 1, 4 or 5-pin male cylindrical connector.

Some pressure transmitters also have an EN 175301-803-A or Packard Metri-Pack 150 connector.

We recommend connecting our pressure sensors by means of our OsiSense XZ cabling accessories.

Electronic pressure sensors

OsiSense XM

XMLK pressure transmitters

Plastic body, stainless steel 303 fluid entry.

With analogue output

Presentation

XMLK pressure transmitters are characterised by their ceramic pressure measuring cell.

The deformation caused by the pressure is transmitted to the resistors of a Wheatstone bridge screen-printed on the ceramic.

The change in resistance is then processed by the integrated electronics, giving an analogue output signal.

The stainless steel AISI 303 fluid entry and the ceramic cell combined with a nitrile gasket make these transmitters particularly suitable for fluids such as air and fresh water, for temperatures between 0 and + 80°C.

Depending on the model, these devices are supplied:

- With 12 or 24 V $\overline{\text{---}}$ nominal and operate from 8 to 33 V $\overline{\text{---}}$ for transmitters with 4...20 mA output
- With 24 V $\overline{\text{---}}$ nominal and operate from 11.4 to 33 V $\overline{\text{---}}$ for transmitters with a 0...10 V output

These products have IP 67 and Nema type 4 degree of protection.

In addition to their plastic case and the pressure ratings available, they constitute the optimised solution for water pumping applications.

Description

- 1 Electrical connection: M12 male, EN 175301-803-A or Packard Metri-Pack 150.
- 2 Plastic case.
- 3 Electronics: 4...20 mA or 0...10 V analogue output.
- 4 Ceramic pressure measuring cell.
- 5 Nitrile gasket.
- 6 Fluid entry: G 1/4 male or 1/4" - 18 NPT male.

Functions

Versions with an M12 electrical connector and 4...20 mA analogue output (XMLK●●●●2D2●) can be used with switches with ZMLP 4-digit display (1).

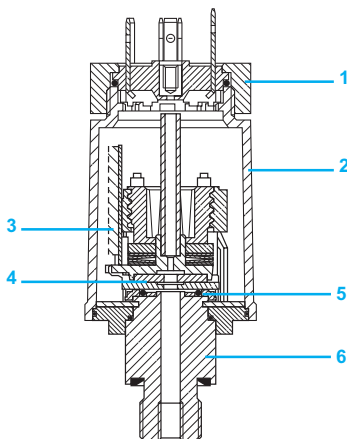
The pressure ranges available are:

- 0...6 bar to 0...25 bar
- 0...100 psi to 0...300 psi

The selling in lots option offers an excellent price/performance ratio (sold individually or in lots of 25).

XMLK electronic pressure sensors are, therefore, mainly intended for machine manufacturers.

(1) See pages 38 and 39.



Electronic pressure sensors

OsiSense XM

XMLK pressure transmitters

Plastic body, stainless steel 303 fluid entry.

With analogue output. Sizes in bar



XMLK●●●B2D●1



XMLK●●●B2C●1

0 to 6 bar (0 to 87 psi)

Maximum permissible accidental pressure: 12 bar, destruction pressure: 18 bar

Analogue output type	Electrical connection	Reference (1)	Weight kg
G 1/4 A (male) fluid connection			
4...20 mA	M12	XMLK006B2D21	0.110
	EN 175301-803-A	XMLK006B2C21 (2)	0.110
0...10 V	M12	XMLK006B2D71	0.110
	EN 175301-803-A	XMLK006B2C71	0.110

0 to 10 bar (0 to 145 psi)

Maximum permissible accidental pressure: 20 bar, destruction pressure: 30 bar

Analogue output type	Electrical connection	Reference (1)	Weight kg
G 1/4 A (male) fluid connection			
4...20 mA	M12	XMLK010B2D21 (2)	0.110
	EN 175301-803-A	XMLK010B2C21 (2)	0.110
0...10 V	M12	XMLK010B2D71	0.110
	EN 175301-803-A	XMLK010B2C71	0.110

0 to 16 bar (0 to 232 psi)

Maximum permissible accidental pressure: 32 bar, destruction pressure: 48 bar

Analogue output type	Electrical connection	Reference (1)	Weight kg
G 1/4 A (male) fluid connection			
4...20 mA	M12	XMLK016B2D21	0.110
	EN 175301-803-A	XMLK016B2C21 (2)	0.110
0...10 V	M12	XMLK016B2D71	0.110
	EN 175301-803-A	XMLK016B2C71	0.110

0 to 25 bar (0 to 362.5 psi)

Maximum permissible accidental pressure: 50 bar, destruction pressure: 75 bar

Analogue output type	Electrical connection	Reference (1)	Weight kg
G 1/4 A (male) fluid connection			
4...20 mA	M12	XMLK025B2D21 (2)	0.110
	EN 175301-803-A	XMLK025B2C21 (2)	0.110
0...10 V	M12	XMLK025B2D71	0.110

(1) For other electrical or fluid connections, or types of output, please consult our Customer Care Centre.

(2) Sold in lots of 25. Add TQ to the end of the reference selected.

Example: XMLK006B2C21 becomes XMLK006B2C21TQ. Minimum quantity 50.

Electronic pressure sensors

OsiSense XM

XMLK pressure transmitters

Plastic body, stainless steel 303 fluid entry.

With analogue output. Sizes in psi



XMLK●●0P2D●3



XMLK●●0P2C●3



XMLK●●0P2P●3

0 to 100 psi (0 to 6.9 bar)

Maximum permissible accidental pressure: 200 psi, destruction pressure: 300 psi

Analogue output type	Electrical connection	Reference (1)	Weight kg
1/4"- 18 NPT (male) fluid connection			
4...20 mA	M12	XMLK100P2D23 (2)	0.110
	EN 175301-803-A	XMLK100P2C23 (2)	0.110
	Packard Metri-Pack 150	XMLK100P2P23 (2)	0.110
0...10 V	M12	XMLK100P2D73	0.110
	EN 175301-803-A	XMLK100P2C73	0.110

0 to 150 psi (0 to 10.3 bar)

Maximum permissible accidental pressure: 300 psi, destruction pressure: 450 psi

Analogue output type	Electrical connection	Reference (1)	Weight kg
1/4"- 18 NPT (male) fluid connection			
4...20 mA	M12	XMLK150P2D23	0.110
	EN 175301-803-A	XMLK150P2C23	0.110
	Packard Metri-Pack 150	XMLK150P2P23	0.110
0...10 V	M12	XMLK150P2D73	0.110
	EN 175301-803-A	XMLK150P2C73	0.110

0 to 200 psi (0 to 13.8 bar)

Maximum permissible accidental pressure: 400 psi, destruction pressure: 600 psi

Analogue output type	Electrical connection	Reference (1)	Weight kg
1/4"- 18 NPT (male) fluid connection			
4...20 mA	M12	XMLK200P2D23	0.110
	EN 175301-803-A	XMLK200P2C23 (2)	0.110
	Packard Metri-Pack 150	XMLK200P2P23	0.110
0...10 V	M12	XMLK200P2D73	0.110
	EN 175301-803-A	XMLK200P2C73	0.110

0 to 300 psi (0 to 20.7 bar)

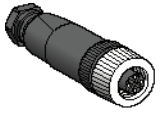
Maximum permissible accidental pressure: 600 psi, destruction pressure: 900 psi

Analogue output type	Electrical connection	Reference (1)	Weight kg
1/4"- 18 NPT (male) fluid connection			
4...20 mA	M12	XMLK300P2D23	0.110
	EN 175301-803-A	XMLK300P2C23 (2)	0.110
	Packard Metri-Pack 150	XMLK300P2P23 (2)	0.110
0...10 V	M12	XMLK300P2D73	0.110
	EN 175301-803-A	XMLK300P2C73	0.110

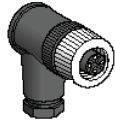
(1) For other electrical or fluid connections, or types of output, please consult our Customer Care Centre.

(2) Sold in lots of 25. Add TQ to the end of the reference selected.

Example: XMLK200P2D23 becomes XMLK200P2D23TQ. Minimum quantity 50.



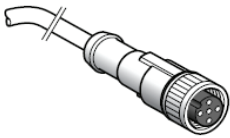
XZCC12FDM40B



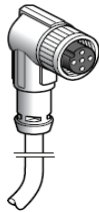
XZCC12FCM40B



XZCC43FCP40B



XZCP1141L10



XZCP1241L5

Connection accessories

Description	Type	Reference	Weight kg
M12 female connector metal clamping ring (1)	Straight	XZCC12FDM40B	0.020
	Elbowed	XZCC12FCM40B	0.020

Female connector EN 175301-803-A (1)	–	XZCC43FCP40B	0.035
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Description	Length of cable	Reference	Weight kg
Pre-wired M12, straight, female connectors	2 m	XZCP1141L2	0.090
	5 m	XZCP1141L5	0.190
	10 m	XZCP1141L10	0.370
Pre-wired M12, elbowed, female connectors	2 m	XZCP1241L2	0.090
	5 m	XZCP1241L5	0.190
	10 m	XZCP1241L10	0.370

(1) Connector with screw terminal connections.

Electronic pressure sensors

OsiSense XM

XMLG pressure transmitters, pressure and vacuum switches. Metal body, stainless steel 303 fluid entry. With analogue or solid-state output.

Presentation

XMLG pressure transmitters and pressure switches are characterised by their ceramic pressure measuring cell. The deformation caused by the pressure is transmitted to the resistors of a Wheatstone bridge screen-printed on the ceramic.

The change in resistance is then processed by the integrated electronics, giving either a digital or analogue output signal.

The stainless steel AISI 303 body and the ceramic cell combined with a viton gasket make these products compatible with industrial fluids such as:

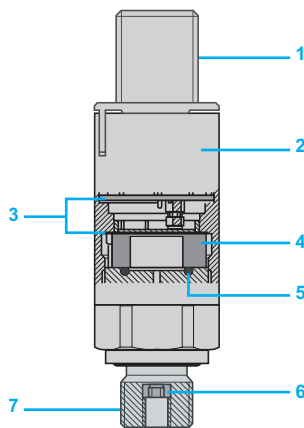
- Air
- Fresh water
- Hydraulic oils

XMLG pressure sensors can control fluids from -15 to + 125°C.

Depending on the model, these sensors are supplied:

- With 12 or 24 V $\overline{\text{---}}$ nominal and operate from 8 to 33 V $\overline{\text{---}}$ for transmitters with 4...20 mA output, pressure and vacuum switches;
- With 24 V $\overline{\text{---}}$ nominal and operate from 11.4 to 33 V $\overline{\text{---}}$ for transmitters with a 0...10 V output.

Offered with IP 67 and Nema type 4 degree of protection, these compact products, which offer excellent EMC characteristics and typical precision better than 0,3 %, are particularly suitable for the most demanding industrial applications.



Description

- 1 Electrical connection: M12 male or quick connection for cable.
- 2 Metal case made of stainless steel 303.
- 3 Electronics with EMC protection.
- 4 Ceramic pressure measuring cell.
- 5 FPM (Viton) gasket.
- 6 Leakage protection (on sizes \geq 40 bar).
- 7 Fluid entry: G 1/4 male or 1/4" - 18 NPT male.

Functions

Pressure transmitters have an 4...20 mA or 0...10 V analogue output, which is proportional to the measuring range.

Versions with an M12 electrical connector and 4...20 mA analogue output (XMLG●●●D2●) can be used with switches with a 4-digit ZMLP display (1).

Pressure and vacuum switches have a solid-state NPN or PNP normally closed (NC) output. The upper and lower switching points can only be adjusted during manufacture. Neither the customer nor the end user can adjust them.

This makes the product extremely reliable during operation and avoids the product losing its settings throughout its operating life.

The pressure ranges offered are:

- - 1...0 bar
- 0...400 bar

An anti-leakage system integrated in products for pressures \geq 40 bar, prevents fluid leakage in the event of the measuring cell destruction pressure being exceeded.

Important ordering requirement

XMLG pressure transmitters are sold individually or in lots of 50. Pressure switches and vacuum switches are only sold in lots of 50.

Since the product is factory-set, please consult our Customer Care Centre before ordering, to specify the desired switching points.

(1) See pages 38 and 39.

Electronic pressure sensors

OsiSense XM

XMLG pressure transmitters

Metal body, stainless steel 303 fluid entry.

With analogue output. Sizes in bar



XMLG●●●D●●●

-1 to 0 bar (-14.5 to 0 psi)

Maximum permissible accidental pressure: 2.7 bar, destruction pressure: 3 bar

Analogue output type	Electrical connection	Reference (1)	Weight kg
G 1/4 A (male) fluid connection			
4...20 mA	M12	XMLGM01D21 (2)	0.095
0...10 V	M12	XMLGM01D71	0.095

1/4"- 18 NPT (male) fluid connection

4...20 mA	M12	XMLGM01D23 (2)	0.095
0...10 V	M12	XMLGM01D73TQ (3)	0.095

0 to 1 bar (0 to 14.5 psi)

Maximum permissible accidental pressure: 2.7 bar, destruction pressure: 3 bar

Analogue output type	Electrical connection	Reference (1)	Weight kg
G 1/4 A (male) fluid connection			
4...20 mA	M12	XMLG001D21 (2)	0.095
0...10 V	M12	XMLG001D71 (2)	0.095

Fluid connection 1/4"- 18 NPT (male)

4...20 mA	M12	XMLG001D23 (2)	0.095
0...10 V	M12	XMLG001D73TQ (3)	0.095

0 to 6 bar (0 to 87 psi)

Maximum permissible accidental pressure: 17.6 bar, destruction pressure: 20 bar

Analogue output type	Electrical connection	Reference	Weight kg
G 1/4 A (male) fluid connection			
4...20 mA	M12	XMLG006D21	0.095
0...10 V	M12	XMLG006D71	0.095

1/4"- 18 NPT (male) fluid connection

4...20 mA	M12	XMLG006D23	0.095
0...10 V	M12	XMLG006D73TQ (3)	0.095

(1) For other electrical or fluid connections, or types of output, please contact our Customer Care Centre.

(2) Sold in lots of 25. Minimum quantity 50. Add TQ to the end of the reference selected.

Example: XMLG001D21 becomes XMLG001D21TQ.

(3) Sold only in lots of 25. Minimum quantity 50.

Electronic pressure sensors

OsiSense XM

XMLG pressure transmitters

Metal body, stainless steel 303 fluid entry.

With analogue output. Sizes in bar



XMLG000D000



XMLG000Q000

0 to 10 bar (0 to 145 psi)

Maximum permissible accidental pressure: 22 bar, destruction pressure: 25 bar

Analogue output type	Electrical connection	Reference (1)	Weight kg
G 1/4 A (male) fluid connection			
4...20 mA	M12	XMLG010D21 (2)	0.095
	Integrated connection (4)	XMLG010Q21TQ (3)	0.095
0...10 V	M12	XMLG010D71 (2)	0.095
	Integrated connection (4)	XMLG010Q71TQ (3)	0.095

1/4"- 18 NPT (male) fluid connection

4...20 mA	M12	XMLG010D23 (2)	0.095
0...10 V	M12	XMLG010D73	0.095

0 to 16 bar (0 to 232 psi)

Maximum permissible accidental pressure: 35.2 bar, destruction pressure: 40 bar

Analogue output type	Electrical connection	Reference (1)	Weight kg
G 1/4 A (male) fluid connection			
4...20 mA	M12	XMLG016D21 (2)	0.095
0...10 V	M12	XMLG016D71	0.095

1/4"- 18 NPT (male) fluid connection

4...20 mA	M12	XMLG016D23	0.095
0...10 V	M12	XMLG010D73TQ (3)	0.095

0 to 25 bar (0 to 362.5 psi)

Maximum permissible accidental pressure: 56 bar, destruction pressure: 62.5 bar

Analogue output type	Electrical connection	Reference (1)	Weight kg
G 1/4 A (male) fluid connection			
4...20 mA	M12	XMLG025D21 (2)	0.095
	Integrated connection (4)	XMLG025Q21TQ (3)	0.095
0...10 V	M12	XMLG025D71 (2)	0.095
1/4"- 18 NPT (male) fluid connection			
4...20 mA	M12	XMLG025D23 (2)	0.095
0...10 V	M12	XMLG025D73TQ (3)	0.095

(1) For other electrical or fluid connections, or types of output, please consult our Customer Care Centre.

(2) Sold in lots of 25. Minimum quantity 50. Add TQ to the end of the reference selected.
Example: XMLG001D21 becomes XMLG001D21TQ.

(3) Sold only in lots of 25. Minimum quantity 50.

(4) Phoenix Contact "Quickon" type integrated quick connection.

Electronic pressure sensors

OsiSense XM

XMLG pressure transmitters

Metal body, stainless steel 303 fluid entry.

With analogue output. Sizes in bar



XMLG...D...



XMLG...Q...

0 to 100 bar (0 to 1450 psi)

Maximum permissible accidental pressure: 225 bar, destruction pressure: 250 bar

Analogue output type (1)	Electrical connection	Reference (1)	Weight kg
G 1/4 A (male) fluid connection			
4...20 mA	M12	XMLG100D21	0.095
		Integrated connection (4) XMLG100Q21TQ (3)	0.095
0...10 V	M12	XMLG100D71 (2)	0.095
1/4"- 18 NPT (male) fluid connection			
4...20 mA	M12	XMLG100D23 (2)	0.095
0...10 V	M12	XMLG100D73TQ (3)	0.095

0 to 250 bar (0 to 3625 psi)

Maximum permissible accidental pressure: 560 bar, destruction pressure: 625 bar

Analogue output type	Electrical connection	Reference (1)	Weight kg
G 1/4 A (male) fluid connection			
4...20 mA	M12	XMLG250D21 (2)	0.095
0...10 V	M12	XMLG250D71 (2)	0.095
1/4"- 18 NPT (male) fluid connection			
4...20 mA	M12	XMLG250D23	0.095
0...10 V	M12	XMLG250D73TQ (3)	0.095

0 to 400 bar (0 to 5800 psi)

Maximum permissible accidental pressure: 800 bar, destruction pressure: 900 bar

Analogue output type	Electrical connection	Reference (1)	Weight kg
G 1/4 A (male) fluid connection			
4...20 mA	M12	XMLG400D21 (2)	0.095
0...10 V	M12	XMLG400D71 (2)	0.095
1/4"- 18 NPT (male) fluid connection			
4...20 mA	M12	XMLG400D23	0.095
0...10 V	M12	XMLG400D73TQ (3)	0.095

(1) For other electrical or fluid connections, or types of output, please consult our Customer Care Centre.

(2) Sold in lots of 25. Minimum quantity 50. Add TQ to the end of the reference selected.
Example: XMLG001D21 becomes XMLG001D21TQ.

(3) Sold only in lots of 25. Minimum quantity 50.

(4) Phoenix Contact "Quickon" type integrated quick connection.

Electronic pressure sensors

OsiSense XM

XMLG pressure and vacuum switches

Metal body, stainless steel 303 fluid entry.

With solid-state output. Sizes in bar



XMLG●●●D●1TQ

-1 to -0.08 bar (-14.5 to -1.16 psi)

Maximum permissible accidental pressure: 2.7 bar, destruction pressure: 3 bar

Analogue output type	Electrical connection	Reference	Weight kg
G 1/4 A (male) fluid connection			
NPN	M12	XMLGM01D31TQ (1)	0.095
PNP	M12	XMLGM01D41TQ (1)	0.095

0.08 to 1 bar (1.16 to 14.5 psi)

Maximum permissible accidental pressure: 2.7 bar, destruction pressure: 3 bar

Analogue output type	Electrical connection	Reference	Weight kg
G 1/4 A (male) fluid connection			
NPN	M12	XMLG001D31TQ (1)	0.095
PNP	M12	XMLG001D41TQ (1)	0.095

0.8 to 10 bar (11.6 to 145 psi)

Maximum permissible accidental pressure: 22 bar, destruction pressure: 25 bar

Analogue output type	Electrical connection	Reference	Weight kg
G 1/4 A (male) fluid connection			
NPN	M12	XMLG010D31TQ (1)	0.095
PNP	M12	XMLG010D41TQ (1)	0.095

2 to 25 bar (29 to 362.5 psi)

Maximum permissible accidental pressure: 56 bar, destruction pressure: 62.5 bar

Analogue output type	Electrical connection	Reference	Weight kg
G 1/4 A (male) fluid connection			
NPN	M12	XMLG025D31TQ (1)	0.095
PNP	M12	XMLG025D41TQ (1)	0.095

8 to 100 bar (116 to 1450 psi)

Maximum permissible accidental pressure: 225 bar, destruction pressure: 250 bar

Analogue output type	Electrical connection	Reference	Weight kg
G 1/4 A (male) fluid connection			
NPN	M12	XMLG100D31TQ (1)	0.095
PNP	M12	XMLG100D41TQ (1)	0.095

20 to 250 bar (290 to 3625 psi)

Maximum permissible accidental pressure: 560 bar, destruction pressure: 625 bar

Analogue output type	Electrical connection	Reference	Weight kg
G 1/4 A (male) fluid connection			
NPN	M12	XMLG250D31TQ (1)	0.095
PNP	M12	XMLG250D41TQ (1)	0.095

32 to 400 bar (464 to 5800 psi)

Maximum permissible accidental pressure: 800 bar, destruction pressure: 900 bar

Analogue output type	Electrical connection	Reference	Weight kg
G 1/4 A (male) fluid connection			
NPN	M12	XMLG400D31TQ (1)	0.095
PNP	M12	XMLG400D41TQ (1)	0.095

(1) Sold only in lots of 25. Minimum quantity 50.

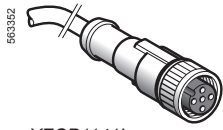
Note: Since the product is factory-set, please consult our Customer Care Centre before ordering, to specify the desired switching points.

Electronic pressure sensors

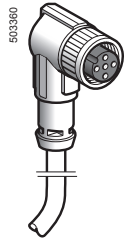
OsiSense XM

XMLG pressure transmitters, pressure and vacuum switches.

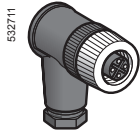
Accessories and replacement parts



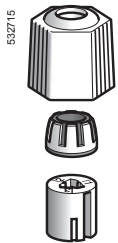
XZCP1141L●



XZCP1241L●



XZCC12FCM40B



XMLGZ001

Connection accessories

Description		Length of cable m	Reference	Weight kg
M12 female connector, metal clamping ring (1)	Straight	–	XZCC12FDM40B	0.020
	Elbowed	–	XZCC12FCM40B	0.020
Pre-wired M12 female connectors	Straight	2	XZCP1141L2	0.090
		5	XZCP1141L5	0.190
		10	XZCP1141L10	0.370
	Elbowed	2	XZCP1241L2	0.090
		5	XZCP1241L5	0.190
		10	XZCP1241L10	0.370

Replacement part

Description	Sold in lots of	Unit reference	Weight kg
Quick connection (2)	10	XMLGZ001	0.025

(1) Connector with screw terminal connections.

(2) Phoenix Contact "Quickon" type connection.

Electronic pressure sensors

OsiSense XM

XMLP pressure transmitters

Compact metal body, stainless steel fluid entry

With analogue output

Presentation

XMLP pressure transmitters rated at less than 9 bar or 100 psi

These transmitters integrate a ceramic pressure measuring cell. Ceramic technology has been used successfully for many years and offers a high level of sensitivity that is particularly suitable for measuring low pressures.

Ceramic also provides good resistance to abrasive fluids. An internal fluorocarbon rubber gasket provides the seal between the ceramic measuring cell and the AISI 316L stainless steel casing.

Pressure transmitters can be used to measure the following types of pressure:

- air
- fresh water
- the majority of hydraulic oils

It is important, however, to ensure that the gasket is compatible with the fluid being controlled.

These transmitters can control fluids ranging in temperature from -15 to 125 °C.

Their power supply depends on the type of analogue output:

- 5 V +/- 10% for the 0.5...4.5 V ratiometric output
- 12 or 24 V (nominal), operating from 7 to 33 V for the 4...20 mA output
- 24 V (nominal), operating from 12 to 33 V for the 0...10 V output

XMLP pressure transmitters rated greater than or equal to 9 bar or 100 psi

These transmitters integrate a "thin film" metal pressure measuring cell. This measuring cell, which is welded directly onto the AISI 304 stainless steel transmitter body, offers the following advantages:

- An all-metal pressure chamber, with no elastomer gasket in contact with the fluid
- Compatibility with a large number of fluids:
 - air
 - fresh water
 - hydraulic oils
 - refrigeration fluids
 - all fluids or gases compatible with AISI 304 stainless steel

XMLP pressure transmitters can control fluids from -30 to 120 °C.

Their power supply depends on the type of analog output:

- 5 V +/- 5% for the 0.5...4.5 V ratiometric output
- 12 or 24 V (nominal), operating from 8 to 30 V for the 4...20 mA output
- 24 V (nominal), operating from 14 to 30 V for the 0...10 V output

General characteristics

Made of stainless steel, XMLP pressure transmitters are compact and rugged.

Their degree of protection varies according to the type of connector:

- IP 65 for EN 175301-803-A connector versions
- IP 65 and IP 67 for Packard Metri-Pack connector versions
- IP 65, IP 67 and IP 69K for M12 connector versions

With typical precision better than 0.5% of the rating, these transmitters are particularly suitable for industrial applications such as:

- machine tools
- moulding presses
- stamping presses
- lifting gear
- HVAC systems (for ratings greater than or equal to 9 bar or 100 psi only)



"Low pressure" transmitters.
AISI 316L stainless steel casing



"High pressure" transmitters.
AISI 304 stainless steel casing

Electronic pressure sensors

OsiSense XM

XMLP pressure transmitters

Compact metal body, stainless steel fluid entry

With analogue output.

Functions

XMLP pressure transmitters have an analogue output which delivers a signal proportional to the measured pressure.

This output can be one of the following types:

- 4...20 mA
- 0...10 V
- 0.5...4.5 V ratiometric

The pressure ranges available are:

- vacuum measuring
 - -1...0 bar
 - -14.5...0 psi
- pressure measuring
 - 0...600 bar
 - 0...10,000 psi
- combined pressure measuring (vacuum and pressure)
 - -1...25 bar
 - -14.5...60 psi

The XMLP offer is available with three types of electrical connection:

- M12, 4-pin connector
- EN 175301-803-A (ex DIN 43650) connector
- Packard Metri-Pack 150 connector
- 2 m PVC cable

Several types of fluid connection are available:

- G1/4 A male
- 1/4"-18NPT male
- SAE 7/16-20UNF-2A male
- SAE 7/16-20UNF-2B female (with or without Schrader pin depending on the model)

Depending on the model, XMLP transmitters are sold:

- individually
- in lots of 25
- in lots of 40

Electronic pressure sensors

OsiSense XM

XMLP pressure transmitters

Compact metal body, 316L stainless steel fluid entry

With analogue output. Sizes in bar



XMLP●●●GD●1F



XMLP●●●GC●1F



XMLP●●●GL●1F

-1 to 0 bar (-14.5 to 0 psi)

Maximum permissible accidental pressure: 3 bar, destruction pressure: 5 bar

Analogue output type	Electrical connection	Reference	Weight kg
G 1/4 A DIN 3852-E (male) fluid connection			
4...20 mA	M12	XMLPM00GD21F (1)	0.080
	EN 175301-803-A	XMLPM00GC21F (1)	0.096
	2 m cable	XMLPM00GL21F	0.197
0...10 V	M12	XMLPM00GD71F (1)	0.080
	EN 175301-803-A	XMLPM00GC71F (1)	0.096
	2 m cable	XMLPM00GL71F	0.197
0.5...4.5 V ratiometric	M12	XMLPM00GD11F	0.080
	EN 175301-803-A	XMLPM00GC11F	0.096

SAE 7/16-20UNF-2B (female) fluid connection

4...20 mA	M12	XMLPM00GD2BF	0.080
	EN 175301-803-A	XMLPM00GC2BF	0.096
0...10 V	M12	XMLPM00GD7BF	0.080
	EN 175301-803-A	XMLPM00GC7BF	0.096

-1 to 1 bar (-14.5 to 14.5 psi)

Maximum permissible accidental pressure: 3 bar, destruction pressure: 5 bar

Analogue output type	Electrical connection	Reference	Weight kg
G 1/4 A DIN 3852-E (male) fluid connection			
4...20 mA	M12	XMLPM01GD21F (1)	0.080
	EN 175301-803-A	XMLPM01GC21F (1)	0.096
0...10 V	M12	XMLPM01GD71F	0.080
	EN 175301-803-A	XMLPM01GC71F	0.096

-1 to 5 bar (-14.5 to 72.6 psi)

Maximum permissible accidental pressure: 18 bar, destruction pressure: 24 bar

Analogue output type	Electrical connection	Reference	Weight kg
G 1/4 A DIN 3852-E (male) fluid connection			
4...20 mA	M12	XMLPM05GD21F (1)	0.080
	EN 175301-803-A	XMLPM05GC21F (1)	0.096
0...10 V	M12	XMLPM05GD71F	0.080
	EN 175301-803-A	XMLPM05GC71F	0.096

(1) Sold in lots of 25: add the letter Q to the end of the selected reference. For example, XMLPM00GD21F becomes XMLPM00GD21FQ.

Electronic pressure sensors

OsiSense XM

XMLP pressure transmitters

Compact metal body, 304 stainless steel fluid entry

With analogue output. Sizes in bar



XMLP●●●BD●1V



XMLP●●●BC●1V

-1 to 9 bar (-14.5 to 130 psi)

Maximum permissible accidental pressure: 20 bar, destruction pressure: 100 bar

Analogue output type	Electrical connection	Reference	Weight kg
G 1/4 A DIN 3852-E (male) fluid connection			
4...20 mA	M12	XMLPM09BD21V (1)	0.050
	EN 175301-803-A	XMLPM09BC21V (1)	0.050
0...10 V	M12	XMLPM09BD71V (1)	0.050
	EN 175301-803-A	XMLPM09BC71V (1)	0.050
0.5...4.5 V ratiometric	M12	XMLPM09BD11V (1)	0.050
	EN 175301-803-A	XMLPM09BC11V (1)	0.050

-1 to 25 bar (-14.5 to 362.5 psi)

Maximum permissible accidental pressure: 50 bar, destruction pressure: 200 bar

Analogue output type	Electrical connection	Reference	Weight kg
G 1/4 A DIN 3852-E (male) fluid connection			
4...20 mA	M12	XMLPM25BD21V	0.050

(1) Sold in lots of 40: add the letter Q to the end of the selected reference.
For example, XMLPM09BD21V becomes XMLPM09BD21VQ.

Electronic pressure sensors

OsiSense XM

XMLP pressure transmitters

Compact metal body, 316L stainless steel fluid entry

With analogue output. Sizes in bar



XMLP●●●●D●1F



XMLP●●●●C●1F



XMLP001GL●1F



XMLP001GC●BF



XMLP001GD●BF

0 to 0.25 bar (0 to 3.63 psi)

Maximum permissible accidental pressure: 3 bar, destruction pressure: 5 bar

Analogue output type	Electrical connection	Reference	Weight kg
G 1/4 A DIN 3852-E (male) fluid connection			
4...20 mA	M12	XMLP250MD21F (1)	0.080
	EN 175301-803-A	XMLP250MC21F (1)	0.096
0...10 V	M12	XMLP250MD71F (1)	0.080
	EN 175301-803-A	XMLP250MC71F (1)	0.096
0.5...4.5 V ratiometric	M12	XMLP250MD11F	0.080
	EN 175301-803-A	XMLP250MC11F	0.096

0 to 0.5 bar (0 to 7.26 psi)

Maximum permissible accidental pressure: 3 bar, destruction pressure: 5 bar

Analogue output type	Electrical connection	Reference	Weight kg
G 1/4 A DIN 3852-E (male) fluid connection			
4...20 mA	M12	XMLP500MD21F (1)	0.080
	EN 175301-803-A	XMLP500MC21F (1)	0.096
0...10 V	M12	XMLP500MD71F (1)	0.080
	EN 175301-803-A	XMLP500MC71F (1)	0.096
0.5...4.5 V ratiometric	M12	XMLP500MD11F	0.080
	EN 175301-803-A	XMLP500MC11F	0.096

0 to 1 bar (0 to 14.5 psi)

Maximum permissible accidental pressure: 3 bar, destruction pressure: 5 bar

Analogue output type	Electrical connection	Reference	Weight kg
G 1/4 A DIN 3852-E (male) fluid connection			
4...20 mA	M12	XMLP001GD21F (1)	0.080
	EN 175301-803-A	XMLP001GC21F (1)	0.096
	2 m cable	XMLP001GL21F	0.197
0...10 V	M12	XMLP001GD71F (1)	0.080
	EN 175301-803-A	XMLP001GC71F (1)	0.096
	2 m cable	XMLP001GL71F	0.197
0.5...4.5 V ratiometric	M12	XMLP001GD11F (1)	0.080
	EN 175301-803-A	XMLP001GC11F	0.096

SAE 7/16-20UNF-2B (female) fluid connection

4...20 mA	M12	XMLP001GD2BF	0.080
	EN 175301-803-A	XMLP001GC2BF	0.096
0...10 V	M12	XMLP001GD7BF	0.080
	EN 175301-803-A	XMLP001GC7BF	0.096

(1) Sold in lots of 25: add the letter Q to the end of the selected reference. For example, XMLP250MD21F becomes XMLP250MD21FQ.

Electronic pressure sensors

OsiSense XM

XMLP pressure transmitters

Compact metal body, 316L stainless steel fluid entry
With analogue output. Sizes in bar



XMLP●●●●D●1F



XMLP●●●●C●1F



XMLP●●●●GL●1F

0 to 2.5 bar (0 to 36.3 psi)

Maximum permissible accidental pressure: 7.5 bar, destruction pressure: 10 bar

Analogue output type	Electrical connection	Reference	Weight kg
G 1/4 A DIN 3852-E (male) fluid connection			
4...20 mA	M12	XMLP2D5GD21F (1)	0.080
	EN 175301-803-A	XMLP2D5GC21F (1)	0.096
	2 m cable	XMLP2D5GL21F	0.197
0...10 V	M12	XMLP2D5GD71F (1)	0.080
	EN 175301-803-A	XMLP2D5GC71F (1)	0.096
	2 m cable	XMLP2D5GL71F	0.197
0.5...4.5 V ratiometric	M12	XMLP2D5GD11F	0.080
	EN 175301-803-A	XMLP2D5GC11F	0.096

0 to 4 bar (0 to 58 psi)

Maximum permissible accidental pressure: 12 bar, destruction pressure: 16 bar

Analogue output type	Electrical connection	Reference	Weight kg
G 1/4 A DIN 3852-E (male) fluid connection			
4...20 mA	M12	XMLP004GD21F (1)	0.080
	EN 175301-803-A	XMLP004GC21F (1)	0.096
0...10 V	M12	XMLP004GD71F (1)	0.080
	EN 175301-803-A	XMLP004GC71F (1)	0.096
0.5...4.5 V ratiometric	M12	XMLP004GD11F	0.080
	EN 175301-803-A	XMLP004GC11F	0.096

0 to 6 bar (0 to 87 psi)

Maximum permissible accidental pressure: 18 bar, destruction pressure: 24 bar

Analogue output type	Electrical connection	Reference	Weight kg
G 1/4 A DIN 3852-E (male) fluid connection			
4...20 mA	M12	XMLP006GD21F (1)	0.080
	EN 175301-803-A	XMLP006GC21F (1)	0.096
	2 m cable	XMLP006GL21F	0.197
0...10 V	M12	XMLP006GD71F (1)	0.080
	EN 175301-803-A	XMLP006GC71F (1)	0.096
	2 m cable	XMLP006GL71F	0.197
0.5...4.5 V ratiometric	M12	XMLP006GD11F (1)	0.080
	EN 175301-803-A	XMLP006GC11F	0.096

(1) Sold in lots of 25; add the letter Q to the end of the selected reference.
For example, XMLP004GD71F becomes XMLP004GD71FQ.

Electronic pressure sensors

OsiSense XM

XMLP pressure transmitters

Compact metal body, 304 stainless steel fluid entry

With analogue output. Sizes in bar



XMLP●●●BD●1V



XMLP●●●BC●1V



XMLP●●●BD●7



XMLP●●●BC●7



XMLP●●●BD●9



XMLP●●●BC●9

0 to 10 bar (0 to 145 psi)

Maximum permissible accidental pressure: 20 bar, destruction pressure: 100 bar

Analogue output type	Electrical connection	Reference	Weight kg
G 1/4 A DIN 3852-E (male) fluid connection			
4...20 mA	M12	XMLP010BD21V (1)	0.050
	EN 175301-803-A	XMLP010BC21V (1)	0.050
0...10 V	M12	XMLP010BD71V (1)	0.050
	EN 175301-803-A	XMLP010BC71V (1)	0.050
0.5...4.5 V ratiometric	M12	XMLP010BD11V (1)	0.050
	EN 175301-803-A	XMLP010BC11V (1)	0.050

SAE 7/16-20UNF-2A (male) fluid connection

4...20 mA	M12	XMLP010BD27 (1)	0.050
	EN 175301-803-A	XMLP010BC27 (1)	0.050

SAE 7/16-20UNF-2B (female with Schrader pin) fluid connection

4...20 mA	M12	XMLP010BD29 (1)	0.050
	EN 175301-803-A	XMLP010BC29 (1)	0.050
0...10 V	M12	XMLP010BD79 (1)	0.050
	EN 175301-803-A	XMLP010BC79	0.050
0.5...4.5 V ratiometric	M12	XMLP010BD19	0.050

0 to 16 bar (0 to 232 psi)

Maximum permissible accidental pressure: 32 bar, destruction pressure: 160 bar

Analogue output type	Electrical connection	Reference	Weight kg
G 1/4 A DIN 3852-E (male) fluid connection			
4...20 mA	M12	XMLP016BD21V (1)	0.050
	EN 175301-803-A	XMLP016BC21V (1)	0.050
0...10 V	M12	XMLP016BD71V (1)	0.050
	EN 175301-803-A	XMLP016BC71V (1)	0.050
0.5...4.5 V ratiometric	M12	XMLP016BD11V (1)	0.050
	EN 175301-803-A	XMLP016BC11V (1)	0.050

SAE 7/16-20UNF-2A (male) fluid connection

4...20 mA	M12	XMLP016BD27 (1)	0.050
	EN 175301-803-A	XMLP016BC27 (1)	0.050

SAE 7/16-20UNF-2B (female with Schrader pin) fluid connection

4...20 mA	M12	XMLP016BD29 (1)	0.050
	EN 175301-803-A	XMLP016BC29 (1)	0.050
0...10 V	M12	XMLP016BD79 (1)	0.050
0.5...4.5 V ratiometric	M12	XMLP016BD19	0.050

(1) Sold in lots of 40: add the letter Q to the end of the selected reference. For example, XMLP016BD21V becomes XMLP016BD21VQ.

Electronic pressure sensors

OsiSense XM

XMLP pressure transmitters

Compact metal body, 304 stainless steel fluid entry
With analogue output. Sizes in bar



XMLP...BD...1V



XMLP...BC...1V



XMLP...BD...7



XMLP...BC...7



XMLP...BD...9



XMLP...BC...9

0 to 25 bar (0 to 362.5 psi)

Maximum permissible accidental pressure: 50 bar, destruction pressure: 200 bar

Analogue output type	Electrical connection	Reference	Weight kg
G 1/4 A DIN 3852-E (male) fluid connection			
4...20 mA	M12	XMLP025BD21V (1)	0.050
	EN 175301-803-A	XMLP025BC21V (1)	0.050
0...10 V	M12	XMLP025BD71V (1)	0.050
	EN 175301-803-A	XMLP025BC71V (1)	0.050
0.5...4.5 V ratiometric	M12	XMLP025BD11V (1)	0.050
	EN 175301-803-A	XMLP025BC11V (1)	0.050

SAE 7/16-20UNF-2A (male) fluid connection

4...20 mA	M12	XMLP025BD27 (1)	0.050
	EN 175301-803-A	XMLP025BC27 (1)	0.050
0...10 V	M12	XMLP025BD77	0.050

SAE 7/16-20UNF-2B (female with Schrader pin) fluid connection

4...20 mA	M12	XMLP025BD29 (1)	0.050
	EN 175301-803-A	XMLP025BC29 (1)	0.050
0...10 V	M12	XMLP025BD79 (1)	0.050

0 to 40 bar (0 to 580 psi)

Maximum permissible accidental pressure: 80 bar, destruction pressure: 320 bar

Analogue output type	Electrical connection	Reference	Weight kg
G 1/4 A DIN 3852-E (male) fluid connection			
4...20 mA	M12	XMLP040BD21V (1)	0.050
	EN 175301-803-A	XMLP040BC21V (1)	0.050
0...10 V	M12	XMLP040BD71V (1)	0.050
	EN 175301-803-A	XMLP040BC71V (1)	0.050
0.5...4.5 V ratiometric	M12	XMLP040BD11V (1)	0.050
	EN 175301-803-A	XMLP040BC11V (1)	0.050

SAE 7/16-20UNF-2A (male) fluid connection

4...20 mA	M12	XMLP040BD27 (1)	0.050
	EN 175301-803-A	XMLP040BC27 (1)	0.050

SAE 7/16-20UNF-2B (female with Schrader pin) fluid connection

4...20 mA	M12	XMLP040BD29 (1)	0.050
	EN 175301-803-A	XMLP040BC29 (1)	0.050
0...10 V	M12	XMLP040BD79 (1)	0.050
0.5...4.5 V ratiometric	M12	XMLP040BD19	0.050

(1) Sold in lots of 40: add the letter Q to the end of the selected reference.
For example, **XMLP040BD21V** becomes **XMLP040BD21VQ**.

Electronic pressure sensors

OsiSense XM

XMLP pressure transmitters

Compact metal body, 304 stainless steel fluid entry

With analogue output. Sizes in bar



XMLP060BD●1V
XMLP100BD●2



XMLP060BC●1V
XMLP100BC●2



XMLP060BD●7



XMLP060BC●7



XMLP060BD●9



XMLP060BC●9

0 to 60 bar (0 to 870 psi)

Maximum permissible accidental pressure: 120 bar, destruction pressure: 480 bar

Analogue output type	Electrical connection	Reference	Weight kg
G 1/4 A DIN 3852-E (male) fluid connection			
4...20 mA	M12	XMLP060BD21V (1)	0.050
	EN 175301-803-A	XMLP060BC21V (1)	0.050
0...10 V	M12	XMLP060BD71V (1)	0.050
	EN 175301-803-A	XMLP060BC71V (1)	0.050
0.5...4.5 V ratiometric	M12	XMLP060BD11V (1)	0.050
	EN 175301-803-A	XMLP060BC11V (1)	0.050

SAE 7/16-20UNF-2A (male) fluid connection

4...20 mA	M12	XMLP060BD27 (1)	0.050
	EN 175301-803-A	XMLP060BC27 (1)	0.050

SAE 7/16-20UNF-2B (female with Schrader pin) fluid connection

4...20 mA	M12	XMLP060BD29 (1)	0.050
	EN 175301-803-A	XMLP060BC29 (1)	0.050
0...10 V	M12	XMLP060BD79 (1)	0.050

0 to 100 bar (0 to 1450 psi)

Maximum permissible accidental pressure: 200 bar, destruction pressure: 600 bar

Analogue output type	Electrical connection	Reference	Weight kg
G 1/4 A DIN 3852-A (male) fluid connection			
4...20 mA	M12	XMLP100BD22 (1)	0.050
	EN 175301-803-A	XMLP100BC22 (1)	0.050
0...10 V	M12	XMLP100BD72 (1)	0.050
	EN 175301-803-A	XMLP100BC72 (1)	0.050
0.5...4.5 V ratiometric	M12	XMLP100BD12 (1)	0.050
	EN 175301-803-A	XMLP100BC12 (1)	0.050

(1) Sold in lots of 40: add the letter Q to the end of the selected reference.
For example, XMLP060BD21V becomes XMLP060BD21VQ.

Electronic pressure sensors

OsiSense XM

XMLP pressure transmitters

Compact metal body, 304 stainless steel fluid entry
With analogue output. Sizes in bar



XMLP000BD02



XMLP000BD02

0 to 160 bar (0 to 2320 psi)

Maximum permissible accidental pressure: 320 bar, destruction pressure: 960 bar

Analogue output type	Electrical connection	Reference	Weight kg
G 1/4 A DIN 3852-A (male) fluid connection			
4...20 mA	M12	XMLP160BD22 (1)	0.050
	EN 175301-803-A	XMLP160BC22 (1)	0.050
0...10 V	M12	XMLP160BD72 (1)	0.050
	EN 175301-803-A	XMLP160BC72 (1)	0.050
0.5...4.5 V ratiometric	M12	XMLP160BD12 (1)	0.050
	EN 175301-803-A	XMLP160BC12 (1)	0.050

0 to 250 bar (0 to 3625 psi)

Maximum permissible accidental pressure: 500 bar, destruction pressure: 1000 bar

Analogue output type	Electrical connection	Reference	Weight kg
G 1/4 A DIN 3852-A (male) fluid connection			
4...20 mA	M12	XMLP250BD22 (1)	0.050
	EN 175301-803-A	XMLP250BC22 (1)	0.050
0...10 V	M12	XMLP250BD72 (1)	0.050
	EN 175301-803-A	XMLP250BC72 (1)	0.050
0.5...4.5 V ratiometric	M12	XMLP250BD12 (1)	0.050
	EN 175301-803-A	XMLP250BC12 (1)	0.050

0 to 400 bar (0 to 5800 psi)

Maximum permissible accidental pressure: 800 bar, destruction pressure: 1600 bar

Analogue output type	Electrical connection	Reference	Weight kg
G 1/4 A DIN 3852-A (male) fluid connection			
4...20 mA	M12	XMLP400BD22 (1)	0.050
	EN 175301-803-A	XMLP400BC22 (1)	0.050
0...10 V	M12	XMLP400BD72 (1)	0.050
	EN 175301-803-A	XMLP400BC72 (1)	0.050
0.5...4.5 V ratiometric	M12	XMLP400BD12 (1)	0.050
	EN 175301-803-A	XMLP400BC12 (1)	0.050

0 to 600 bar (0 to 8700 psi)

Maximum permissible accidental pressure: 1200 bar, destruction pressure: 2400 bar

Analogue output type	Electrical connection	Reference	Weight kg
G 1/4 A DIN 3852-A (male) fluid connection			
4...20 mA	M12	XMLP600BD22 (1)	0.050
	EN 175301-803-A	XMLP600BC22 (1)	0.050
0...10 V	M12	XMLP600BD72 (1)	0.050
	EN 175301-803-A	XMLP600BC72 (1)	0.050
0.5...4.5 V ratiometric	M12	XMLP600BD12 (1)	0.050
	EN 175301-803-A	XMLP600BC12 (1)	0.050

(1) Sold in lots of 40: add the letter Q to the end of the selected reference.
For example, XMLP160BD22 becomes XMLP160BD22Q.

Electronic pressure sensors

OsiSense XM

XMLP pressure transmitters

Compact metal body, 316L stainless steel fluid entry

With analogue output. Sizes in psi



XMLP...RD...3F



XMLP...RC...3F



XMLP...RP...3F

-14.5 to 0 psi (-1 to 0 bar)

Maximum permissible accidental pressure: 44 psi, destruction pressure: 73 psi

Analogue output type	Electrical connection	Reference	Weight kg
1/4" - 18NPT (male) fluid connection			
4...20 mA	M12	XMLPM00RD23F (1)	0.078
	EN 175301-803-A	XMLPM00RC23F	0.094
	Packard Metri-Pack 150	XMLPM00RP23F	0.080
0...10 V	M12	XMLPM00RD73F (1)	0.078
	EN 175301-803-A	XMLPM00RC73F	0.094
	Packard Metri-Pack 150	XMLPM00RP73F	0.080
0.5...4.5 V ratiometric	M12	XMLPM00RD13F	0.078
	EN 175301-803-A	XMLPM00RC13F	0.094
	Packard Metri-Pack 150	XMLPM00RP13F	0.080

-14.5 to 15 psi (-1 to 1.03 bar)

Maximum permissible accidental pressure: 44 psi, destruction pressure: 73 psi

Analogue output type	Electrical connection	Reference	Weight kg
1/4" - 18NPT (male) fluid connection			
4...20 mA	M12	XMLPM15RD23F (1)	0.078
	EN 175301-803-A	XMLPM15RC23F	0.094
	Packard Metri-Pack 150	XMLPM15RP23F (1)	0.080
0...10 V	M12	XMLPM15RD73F (1)	0.078

-14.5 to 60 psi (-1 to 4.14 bar)

Maximum permissible accidental pressure: 44 psi, destruction pressure: 73 psi

Analogue output type	Electrical connection	Reference	Weight kg
1/4" - 18NPT (male) fluid connection			
4...20 mA	M12	XMLPM60RD23F (1)	0.078
	EN 175301-803-A	XMLPM60RC23F	0.094
	Packard Metri-Pack 150	XMLPM60RP23F	0.080
0...10 V	M12	XMLPM60RD73F (1)	0.078

(1) Sold in lots of 25; add the letter Q to the end of the selected reference. For example, XMLP030RD73F becomes XMLP030RD73FQ.

Electronic pressure sensors

OsiSense XM

XMLP pressure transmitters

Compact metal body, 316L stainless steel fluid entry

With analogue output. Sizes in psi

PF151605



XMLP000RD03F

PF151606



XMLP000RC03F

PF151607



XMLP000RP03F

0 to 15 psi (0 to 1.03 bar)

Maximum permissible accidental pressure: 44 psi, destruction pressure: 73 psi

Analogue output type	Electrical connection	Reference	Weight kg
1/4" - 18NPT (male) fluid connection			
4...20 mA	M12	XMLP015RD23F (1)	0.078
	EN 175301-803-A	XMLP015RC23F	0.094
	Packard Metri-Pack 150	XMLP015RP23F	0.080
0...10 V	M12	XMLP015RD73F (1)	0.078
	EN 175301-803-A	XMLP015RC73F	0.094
	Packard Metri-Pack 150	XMLP015RP73F	0.080

0 to 30 psi (0 to 2.07 bar)

Maximum permissible accidental pressure: 109 psi, destruction pressure: 145 psi

Analogue output type	Electrical connection	Reference	Weight kg
1/4" - 18NPT (male) fluid connection			
4...20 mA	M12	XMLP030RD23F (1)	0.078
	EN 175301-803-A	XMLP030RC23F	0.094
	Packard Metri-Pack 150	XMLP030RP23F	0.080
0...10 V	M12	XMLP030RD73F (1)	0.078
	EN 175301-803-A	XMLP030RC73F	0.094
	Packard Metri-Pack 150	XMLP030RP73F	0.080

0 to 50 psi (0 to 3.45 bar)

Maximum permissible accidental pressure: 174 psi, destruction pressure: 232 psi

Analogue output type	Electrical connection	Reference	Weight kg
1/4" - 18NPT (male) fluid connection			
4...20 mA	M12	XMLP050RD23F (1)	0.078
	EN 175301-803-A	XMLP050RC23F	0.094
	Packard Metri-Pack 150	XMLP050RP23F	0.080
0...10 V	M12	XMLP050RD73F (1)	0.078

(1) Sold in lots of 25; add the letter Q to the end of the selected reference.
For example, XMLP030RD73F becomes XMLP030RD73FQ.

Electronic pressure sensors

OsiSense XM

XMLP pressure transmitters

Compact metal body, 304 stainless steel fluid entry

With analogue output. Sizes in psi

PF121705



XMLP●●●PD●3

PF121704



XMLP●●●PP●3

0 to 100 psi (0 to 6.9 bar)

Maximum permissible accidental pressure: 200 psi, destruction pressure: 1000 psi

Analogue output type	Electrical connection	Reference	Weight kg
1/4" - 18NPT (male) fluid connection			
4...20 mA	M12	XMLP100PD23 (1)	0.050
	Packard Metri-Pack 150	XMLP100PP23 (1)	0.050
0...10 V	M12	XMLP100PD73 (1)	0.050
	Packard Metri-Pack 150	XMLP100PP73 (1)	0.050
0.5...4.5 V ratiometric	M12	XMLP100PD13	0.050
	Packard Metri-Pack 150	XMLP100PP13	0.050

0 to 150 psi (0 to 10.3 bar)

Maximum permissible accidental pressure: 300 psi, destruction pressure: 1500 psi

Analogue output type	Electrical connection	Reference	Weight kg
1/4" - 18NPT (male) fluid connection			
4...20 mA	M12	XMLP150PD23 (1)	0.050
	Packard Metri-Pack 150	XMLP150PP23 (1)	0.050
0...10 V	M12	XMLP150PD73 (1)	0.050
	Packard Metri-Pack 150	XMLP150PP73 (1)	0.050
0.5...4.5 V ratiometric	M12	XMLP150PD13	0.050
	Packard Metri-Pack 150	XMLP150PP13	0.050

0 to 200 psi (0 to 13.8 bar)

Maximum permissible accidental pressure: 400 psi, destruction pressure: 2000 psi

Analogue output type	Electrical connection	Reference	Weight kg
1/4" - 18NPT (male) fluid connection			
4...20 mA	M12	XMLP200PD23 (1)	0.050
	Packard Metri-Pack 150	XMLP200PP23 (1)	0.050
0...10 V	M12	XMLP200PD73 (1)	0.050
	Packard Metri-Pack 150	XMLP200PP73 (1)	0.050
0.5...4.5 V ratiometric	M12	XMLP200PD13	0.050
	Packard Metri-Pack 150	XMLP200PP13	0.050

(1) Sold in lots of 40: add the letter Q to the end of the selected reference. For example, XMLP150PD23 becomes XMLP150PD23Q.

Electronic pressure sensors

OsiSense XM

XMLP pressure transmitters

Compact metal body, 304 stainless steel fluid entry
With analogue output. Sizes in psi



XMLP●●●PD●3



XMLP●●●PP●3

0 to 300 psi (0 to 20.7 bar)

Maximum permissible accidental pressure: 600 psi, destruction pressure: 2400 psi

Analogue output type	Electrical connection	Reference	Weight kg
1/4" - 18NPT (male) fluid connection			
4...20 mA	M12	XMLP300PD23 (1)	0.050
	Packard Metri-Pack 150	XMLP300PP23 (1)	0.050
0...10 V	M12	XMLP300PD73 (1)	0.050
	Packard Metri-Pack 150	XMLP300PP73 (1)	0.050
0.5...4.5 V ratiometric	M12	XMLP300PD13	0.050
	Packard Metri-Pack 150	XMLP300PP13	0.050

0 to 600 psi (0 to 41.4 bar)

Maximum permissible accidental pressure: 1200 psi, destruction pressure: 4800 psi

Analogue output type	Electrical connection	Reference	Weight kg
1/4" - 18NPT (male) fluid connection			
4...20 mA	M12	XMLP600PD23 (1)	0.050
	Packard Metri-Pack 150	XMLP600PP23 (1)	0.050
0...10 V	M12	XMLP600PD73 (1)	0.050
	Packard Metri-Pack 150	XMLP600PP73 (1)	0.050
0.5...4.5 V ratiometric	M12	XMLP600PD13	0.050
	Packard Metri-Pack 150	XMLP600PP13	0.050

0 to 1000 psi (0 to 69 bar)

Maximum permissible accidental pressure: 2000 psi, destruction pressure: 6000 psi

Analogue output type	Electrical connection	Reference	Weight kg
1/4" - 18NPT (male) fluid connection			
4...20 mA	M12	XMLP1K0PD23 (1)	0.050
	Packard Metri-Pack 150	XMLP1K0PP23 (1)	0.050
0...10 V	M12	XMLP1K0PD73 (1)	0.050
	Packard Metri-Pack 150	XMLP1K0PP73 (1)	0.050
0.5...4.5 V ratiometric	M12	XMLP1K0PD13	0.050
	Packard Metri-Pack 150	XMLP1K0PP13	0.050

(1) Sold in lots of 40: add the letter Q to the end of the selected reference.
For example, XMLP300PP23 becomes XMLP300PP23Q.

Electronic pressure sensors

OsiSense XM

XMLP pressure transmitters

Compact metal body, 304 stainless steel fluid entry

With analogue output. Sizes in psi

PF121705



XMLP●●●PD●3

PF121704



XMLP●●●PP●3

0 to 2000 psi (0 to 138 bar)

Maximum permissible accidental pressure: 4000 psi, destruction pressure: 12,000 psi

Analogue output type	Electrical connection	Reference	Weight kg
1/4" - 18NPT (male) fluid connection			
4...20 mA	M12	XMLP2K0PD23 (1)	0.050
	Packard Metri-Pack 150	XMLP2K0PP23 (1)	0.050
0...10 V	M12	XMLP2K0PD73 (1)	0.050
	Packard Metri-Pack 150	XMLP2K0PP73 (1)	0.050
0.5...4.5 V ratiometric	M12	XMLP2K0PD13	0.050
	Packard Metri-Pack 150	XMLP2K0PP13	0.050

0 to 3000 psi (0 to 207 bar)

Maximum permissible accidental pressure: 6000 psi, destruction pressure: 12,000 psi

Analogue output type	Electrical connection	Reference	Weight kg
1/4" - 18NPT (male) fluid connection			
4...20 mA	M12	XMLP3K0PD23 (1)	0.050
	Packard Metri-Pack 150	XMLP3K0PP23 (1)	0.050
0...10 V	M12	XMLP3K0PD73 (1)	0.050
	Packard Metri-Pack 150	XMLP3K0PP73 (1)	0.050
0.5...4.5 V ratiometric	M12	XMLP3K0PD13	0.050
	Packard Metri-Pack 150	XMLP3K0PP13	0.050

0 to 6000 psi (0 to 414 bar)

Maximum permissible accidental pressure: 11,600 psi, destruction pressure: 24,000 psi

Analogue output type	Electrical connection	Reference	Weight kg
1/4" - 18NPT (male) fluid connection			
4...20 mA	M12	XMLP6K0PD23 (1)	0.050
	Packard Metri-Pack 150	XMLP6K0PP23 (1)	0.050
0...10 V	M12	XMLP6K0PD73 (1)	0.050
	Packard Metri-Pack 150	XMLP6K0PP73 (1)	0.050
0.5...4.5 V ratiometric	M12	XMLP6K0PD13 (1)	0.050
	Packard Metri-Pack 150	XMLP6K0PP13 (1)	0.050

0 to 10,000 psi (0 to 690 bar)

Maximum permissible accidental pressure: 17,400 psi, destruction pressure: 40,000 psi

Analogue output type	Electrical connection	Reference	Weight kg
1/4" - 18NPT (male) fluid connection			
4...20 mA	M12	XMLP10KPD23	0.050
	Packard Metri-Pack 150	XMLP10KPP23	0.050
0...10 V	M12	XMLP10KPD73	0.050
	Packard Metri-Pack 150	XMLP10KPP73	0.050
0.5...4.5 V ratiometric	M12	XMLP10KPD13	0.050
	Packard Metri-Pack 150	XMLP10KPP13	0.050

(1) Sold in lots of 40: add the letter Q to the end of the selected reference. For example, XMLP2K0PD23 becomes XMLP2K0PD23Q.

Electronic pressure sensors

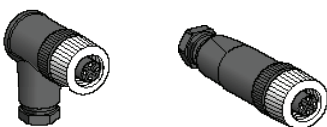
OsiSense XM

XMLP pressure transmitters

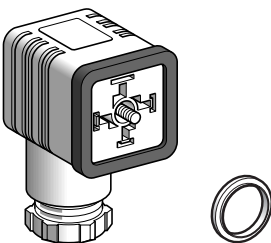
Separate parts



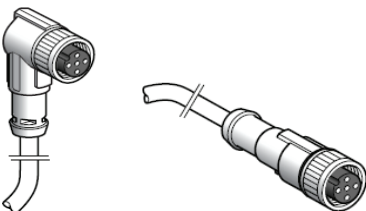
ZMLPA1●2SH



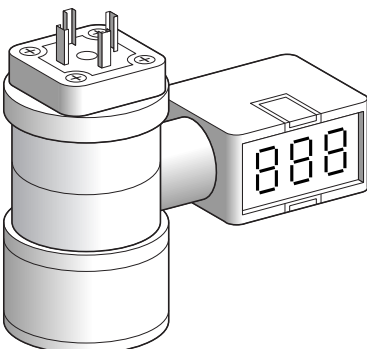
XZCC12FCM40B XZCC12FDM40B



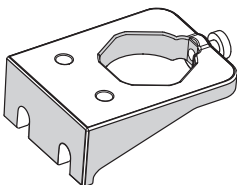
XZCC43FCP40B XMLZL016



XZCP1241L5 XZCP1141L10



XMLEZ●●●



XMLZL017

Switches with display for XMLP●●●●D2●● pressure transmitters (1)

Analogue output type	Solid-state output type	Switching mode	Reference	Weight kg
4...20 mA	1 x PNP	Hysteresis	ZMLPA1P2SH	0.104
		Window	ZMLPA1P2SW	0.104
	1 x NPN	Hysteresis	ZMLPA1N2SH	0.104
		Window	ZMLPA1N2SW	0.104
–	2 x PNP	Hysteresis	ZMLPA2P0SH	0.104
–	2 x NPN	Hysteresis	ZMLPA2N0SH	0.104

Accessories

Description	Type	Reference	Weight kg
Sealing gasket (Pack of 10 gaskets)	–	XMLZL016	0.025
M12 female connector metal clamping ring (2)	Straight	XZCC12FDM40B	0.020
	Elbowed	XZCC12FCM40B	0.020
EN 175301-803-A female connector (2)	–	XZCC43FCP40B	0.035

Description	Cable length	Cable material	Reference	Weight kg
Pre-wired M12, straight, female connectors	2 m	PUR	XZCP1141L2	0.090
		PVC	XZCPV1141L2	0.110
	5 m	PUR	XZCP1141L5	0.190
		PVC	XZCPV1141L5	0.210
	10 m	PUR	XZCP1141L10	0.370
		PVC	XZCPV1141L10	0.390
Pre-wired M12, elbowed, female connectors	2 m	PUR	XZCP1241L2	0.090
		PVC	XZCPV1241L2	0.110
	5 m	PUR	XZCP1241L5	0.190
		PVC	XZCPV1241L5	0.210
	10 m	PUR	XZCP1241L10	0.370
		PVC	XZCPV1241L10	0.390

Description	For use with	Size of transmitter bar	Reference	Weight kg
Digital displays for pressure transmitters	XMLPM00GC2●●	-1...0	XMLEZM01	0.100
	XMLP001GC2●●	0...1	XMLEZ001	0.100
	XMLP010BC2●●	0...10	XMLEZ010	0.100
	XMLP025BC2●●	0...25	XMLEZ025	0.100
	XMLP060BC2●●	0...60	XMLEZ060	0.100
	XMLP100BC2●●	0...100	XMLEZ100	0.100
	XMLP250BC2●●	0...250	XMLEZ250	0.100
	XMLP600BC2●●	0...600	XMLEZ600	0.100
Fixing bracket (aluminium)	XMLP●●●M●●● XMLP●●●G●●● XMLP●●●R●●●	–	XMLZL017	0.029

(1) ZMLP switches are compatible with pressure transmitters with 4...20 mA analogue output and M12 connector (see pages 38 and 39).

(2) Connector with screw terminal connections.

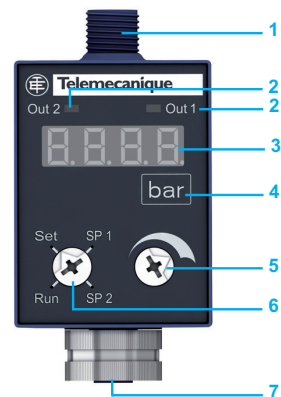
Note: For other connection accessories, visit our website www.tesensors.com.



Example of remote mounting
(with jumper cable and fixing
bracket).



Example of direct mounting
on the pressure transmitter.



Presentation

Combined with a pressure transmitter, the ZMLP switch with display converts an analogue signal into one or two switching outputs with adjustable thresholds. It can also be used to display the measured pressure. One of 27 display ranges, from -14.5 to 6000, can be selected for this purpose, meaning the switch can adapt to the majority of pressure transmitters, whether calibrated in bar, psi or pascal.

Depending on the model, ZMLP switches with display are available with different output configurations:

- One 4...20 mA analogue output and one switching output, PNP or NPN type, hysteresis or window switching mode.
- Two switching outputs, PNP or NPN type, hysteresis switching mode (fixed hysteresis).

Compact and robust:

Its compact housing made of Valox™ PBT and polyester front face provide it with IP65, IP67 and IP69K degrees of protection, making it suitable for the harshest environments. These products are for a nominal supply voltage of 24 V $\overline{\text{---}}$ and have a 17 to 33 V $\overline{\text{---}}$ operating range.

Simplicity of setup:

These products must be connected to an electronic pressure transmitter with 4...20 mA analogue output and 4-pin M12 connector.

They can be mounted:

- Directly on the pressure transmitter. The product body can then pivot through 300°, enabling optimum orientation of the display and settings.
- Or mounted remotely, up to 20 metres from the transmitter, using a simple jumper cable. In this case, clever design accessories allow the product to be fixed in place quickly, horizontally, vertically or even directly on the pressure inlet pipe.

Description

- 1 4-pin male M12 output connector, for connection to an automation platform.
- 2 Indicator LEDs displaying the output status (LED lit when the output has been activated).
- 3 7-segment/4-digit display.
- 4 Pressure unit indication, bar by default, psi, kPa or MPa by the addition of an adhesive label supplied with the product.
- 5 Potentiometer for selecting the display size and adjusting the switching threshold values.
- 6 4-position rotary switch for selecting the parameter to be configured.
- 7 4-pin female M12 connector, for connection to the pressure transmitter.

Functions

Configurable functions

For the display:

- Pressure unit (bar, psi, kPa and MPa)
- 27 display ranges can be selected, from -14.5 to 6000

For the solid-state output(s):

- NO or NC contact

Locking/unlocking:

- In order to avoid losing the product settings accidentally, the product can be locked. The settings cannot then be changed

Fast diagnostic function

- Illumination of all the display segments on each power-up, enabling checking of their operation

Electronic pressure sensors

OsiSense XM

ZMLP switches with 4-digit display



ZMLPA1●2SH



ZMLPA1●2SW



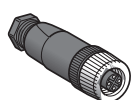
ZMLPA2●0SH



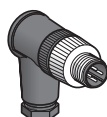
XMLPZLH01



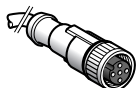
XMLPZLV01



XZCC12FDM40B



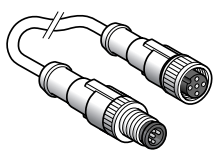
XZCC12MCM40B



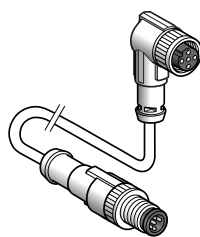
XZCP1141L●



XZCP1241L●



XZCR1511040A●



XZCR1512040A●

Switches with a display

for OsiSense XMLP pressure sensors (1)

Analogue output type	Solid-state output type	Switching mode	Reference	Weight kg
4...20 mA	1 x PNP	Hysteresis	ZMLPA1P2SH	0.104
		Window	ZMLPA1P2SW	0.104
	1 x NPN	Hysteresis	ZMLPA1N2SH	0.104
		Window	ZMLPA1N2SW	0.104
–	2 x PNP	Hysteresis	ZMLPA2P0SH	0.104
	2 x NPN	Hysteresis	ZMLPA2N0SH	0.104

Fixing brackets

for ZMLP switches with display

Description	Reference	Weight kg
Metal bracket for fixing horizontally	XMLPZLH01	0.012
Metal bracket for fixing vertically or on an inlet pipe	XMLPZLV01	0.024

Cabling accessories

Type	Length of cable m	Reference	Weight kg
4-pin M12 connectors, for connection on screw terminals (2)			
Straight female connector	–	XZCC12FDM40B	0.020
Elbowed female connector	–	XZCC12FCM40B	0.020
Straight male connector	–	XZCC12MDM40B	0.025
Elbowed male connector	–	XZCC12MCM40B	0.025

Pre-wired M12, 4-pin connectors (PUR cable)

Straight female connector	2	XZCP1141L2	0.090
	5	XZCP1141L5	0.190
	10	XZCP1141L10	0.370
	15	XZCP1141L15	0.500
	20	XZCP1141L20	0.750
Elbowed female connector	2	XZCP1241L2	0.090
	5	XZCP1241L5	0.190
	10	XZCP1241L10	0.370
	15	XZCP1241L15	0.500
	20	XZCP1241L20	0.750

M12-M12, 3-pin jumper cables (PUR cable) (2)

Straight male and female connectors	1	XZCR1511040A1	0.065
	2	XZCR1511040A2	0.095
Straight male connector, elbowed female connector	1	XZCR1512040A1	0.065
	2	XZCR1512040A2	0.095

(1) For XMLP●●●●D2● pressure transmitters (see pages 24 to 36).

Switches with display are also compatible with XMLK●●●●2D2● and XMLG●●●●D2● pressure transmitters (see pages 12 to 21).

(2) For connecting the pressure transmitter to the switch with display, in the case of remote mounting.

Electronic pressure sensors

OsiSense XM

XMLR pressure sensors with 4-digit display

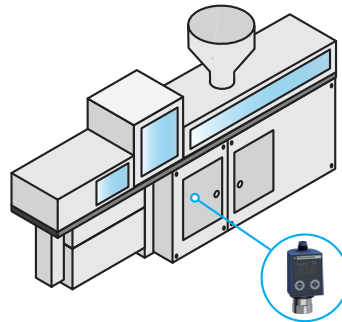
OsiSense XMLR

Electronic pressure sensors are used to control and measure pressure or vacuum levels in hydraulic or pneumatic systems. They convert the pressure into an electrical signal. They then produce an analogue output which is proportional to the measured pressure and/or one or two switching outputs on which the switching point is adjustable.

The high precision and performance of OsiSense XMLR pressure sensors makes them suitable for numerous industrial applications requiring display, control or regulation of pressure/vacuum levels.

Easy to mount

XMLR pressure sensors minimise installation time and effort. Their compact-sized, rotating body and "flip over display" function make mounting easy and flexible.



With its compact size, the OsiSense XMLR pressure sensor is easily integrated into the machine

Compact format

> With a height of just 88 to 100 mm depending on the pressure range and the fluid entry type, OsiSense XMLR is one of the most compact pressure switches on the market.



Rotating body

> The body of the OsiSense XMLR pressure sensor can be rotated 300°, thus enabling the user to orientate the front face of the product as required following connection to the pressure inlet pipe.

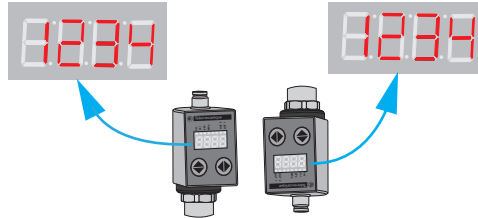


+ The easy switch for machine pressure control

Easy to mount (continued)

Flip over display function.

> The display can be inverted vertically to adapt to the sensor's installation position.



Easy to set up

Menu naming and structure based on the VDMA* standard

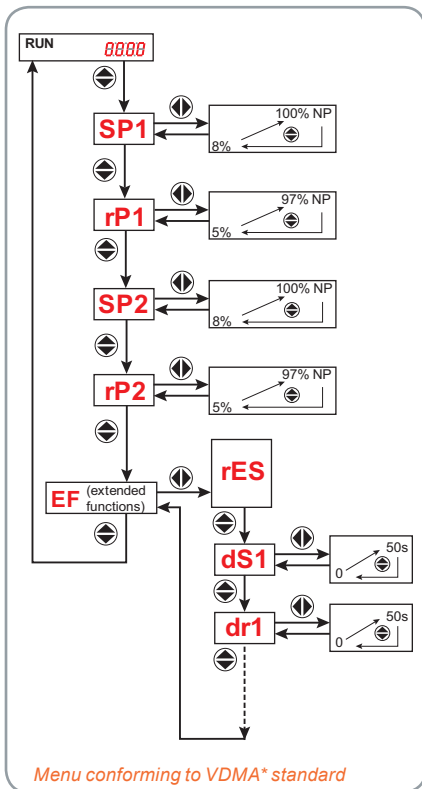
> The ergonomic design of OsiSense XMLR sets a new standard for ease of configuration.

Navigation using just two pushbuttons

> Two simple pushbuttons are all that is needed to navigate through an intuitive menu structured according to the VDMA* 24574-1 standard.



- 1 Pushbutton to display a value or parameter or to save a selected value or parameter and return to the menu.
- 2 Pushbutton to scroll from one menu to another or to increase a value or change a parameter.



Easy to maintain

At each device start up, all segments of the display light up briefly to confirm that it is operating correctly.

The device can be tested using a diagnostic function which checks the whole electronic signal processing chain. This function is accessible via the "Dia" menu and the result of the test is indicated on the display (DONE or ERR).

For transmitters, this function can also be remotely activated by connecting the Test input to an automation platform, thus enabling automatic verification without the need for intervention by an operator.

In this instance, the self-test also generates an analogue output signal which is equivalent to 50% of the sensor size (12 mA or 5 V) which, in turn, can be verified by the automation platform.

The pressure sensor can be considered as defective if the difference between the signal transmitted and the standard theoretical value is too great.

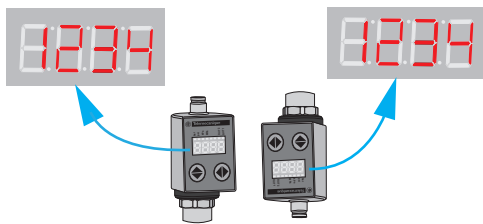
OsiSense XMLR pressure sensors also include a recording of the high and low pressure values measured since the last reset. These values can be displayed via the Hi and Lo menus.

* VDMA: Verband Deutscher Maschinen und Anlagenbau e.V.

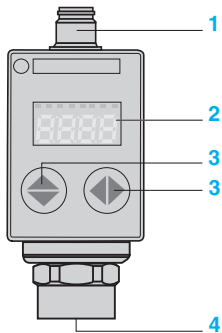
Electronic pressure sensors

OsiSense XM

XMLR pressure sensors with 4-digit display.
Compact plastic body, stainless steel 316L fluid entry.
With analogue and solid-state outputs.



"Flip over display" function.



Presentation

XMLR electronic pressure sensors are used for pressure control of hydraulic oils, fresh water, air and refrigeration fluids, between -1 and 600 bar.

Depending on the model, XMLR sensors are available with different output configurations in order to meet the highest number of requirements:

- One analogue output, 4...20 mA or 0...10 V, proportional to the measuring range
- One analogue output and one switching output, PNP or NPN type
- Two switching outputs, PNP or NPN type
- One 4...20 mA analogue output and two switching outputs, PNP or NPN type

Compact and robust:

The stainless steel 316L fluid entry and fibreglass impregnated polyacrylamide body provide the XMLR pressure sensors with excellent mechanical resistance, improved corrosion resistance and an P65/IP67 degree of protection. Compact in size (88 mm to 100 mm overall, depending on model), these products are for a nominal supply voltage of 24 V $\overline{\text{DC}}$ and have a 17 to 33 V $\overline{\text{DC}}$ operating range.

They are particularly suitable for:

- Moulding and thermoforming presses
- Injection machines
- Pneumatic systems and assembly machinery
- Hydraulic systems of lifting and handling equipment
- Pumping and fresh water treatment

Simplicity of setting-up

The body of the OsiSense XMLR pressure sensor can be turned through 300°, thus enabling the front face of the product to be orientated as required following connection to the pressure inlet pipe.

In addition, the "flip over display" function simplifies reading in the event of upside down mounting (fluid entry from above).

Description

- 1 M12 male connector, 4 or 5-pin depending on model.
- 2 4-digit, 7-segment display and LED indicator for pressure and output state (LED lit when the output has been activated).
- 3 Navigation keys for setting and configuring the menus (conforming to VDMA 24574).
- 4 Fluid entry: G 1/4 female, 1/4"-18 NPT female or SAE 7/16-20UNF female, depending on model.

Functions

Configurable functions

For the display:

- Pressure unit of measurement (bar, psi, kPa or MPa)
- Display refresh time: fast (50 ms), normal (200 ms), slow (600 ms)
- 180° flip over display
- Display off, power saving mode

For the analogue output (4...20 mA or 0...10 V):

- Compensation offset in the range of $\pm 5\%$ of the units size
- Adjustment of pressure between 75 and 125% of the nominal pressure

For each 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)

Locking/unlocking:

- In order to avoid losing the product settings accidentally, the product can be locked. The settings cannot then be changed

Fast diagnostic functions

- Illumination of all the display segments 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, up to 125% of the nominal pressure, and their subsequent display

Electronic pressure sensors

OsiSense XM

XMLR pressure sensors with 4-digit display.
Compact plastic body, stainless steel 316L fluid entry.
With analogue and solid-state outputs.



XMLR●●●G●●●5



XMLR●●●G●●●6

-1 to 0 bar (-14.5 to 0 psi)

Maximum permissible accidental pressure: 3 bar, destruction pressure: 3 bar

Analogue output type	Solid-state output type	Reference	Weight kg
G 1/4 DIN 3852-Y (female) fluid connection			
4...20 mA	–	XMLRM01G0T25	0.190
0...10 V	–	XMLRM01G0T75	0.190
4...20 mA	1 x PNP	XMLRM01G1P25	0.190
4...20 mA	1 x NPN	XMLRM01G1N25	0.190
0...10 V	1 x PNP	XMLRM01G1P75	0.190
0...10 V	1 x NPN	XMLRM01G1N75	0.190
–	2 x PNP	XMLRM01G2P05	0.190
–	2 x NPN	XMLRM01G2N05	0.190
4...20 mA	2 x PNP	XMLRM01G2P25	0.190
4...20 mA	2 x NPN	XMLRM01G2N25	0.190

1/4"- 18 NPT (female) fluid connection

4...20 mA	–	XMLRM01G0T26	0.212
4...20 mA	1 x PNP	XMLRM01G1P26	0.212
4...20 mA	1 x NPN	XMLRM01G1N26	0.212
–	2 x PNP	XMLRM01G2P06	0.212
–	2 x NPN	XMLRM01G2N06	0.212
4...20 mA	2 x PNP	XMLRM01G2P26	0.212
4...20 mA	2 x NPN	XMLRM01G2N26	0.212

0 to 1 bar (0 to 14.5 psi)

Maximum permissible accidental pressure: 7 bar, destruction pressure: 7 bar

Analogue output type	Solid-state output type	Reference	Weight kg
G 1/4 DIN 3852-Y (female) fluid connection			
4...20 mA	–	XMLR001G0T25	0.190
0...10 V	–	XMLR001G0T75	0.190
4...20 mA	1 x PNP	XMLR001G1P25	0.190
4...20 mA	1 x NPN	XMLR001G1N25	0.190
0...10 V	1 x PNP	XMLR001G1P75	0.190
0...10 V	1 x NPN	XMLR001G1N75	0.190
–	2 x PNP	XMLR001G2P05	0.190
–	2 x NPN	XMLR001G2N05	0.190
1/4"- 18 NPT (female) fluid connection			
4...20 mA	–	XMLR001G0T26	0.212
0...10 V	–	XMLR001G0T76	0.212
4...20 mA	1 x PNP	XMLR001G1P26	0.212
4...20 mA	1 x NPN	XMLR001G1N26	0.212
–	2 x PNP	XMLR001G2P06	0.212
–	2 x NPN	XMLR001G2N06	0.212

0 to 2.5 bar (0 to 36.2 psi)

Maximum permissible accidental pressure: 12 bar, destruction pressure: 12 bar

Analogue output type	Solid-state output type	Reference	Weight kg
G 1/4 DIN 3852-Y (female) fluid connection			
4...20 mA	–	XMLR2D5G0T25	0.190
0...10 V	–	XMLR2D5G0T75	0.190
4...20 mA	1 x PNP	XMLR2D5G1P25	0.190
4...20 mA	1 x NPN	XMLR2D5G1N25	0.190
0...10 V	1 x PNP	XMLR2D5G1P75	0.190
0...10 V	1 x NPN	XMLR2D5G1N75	0.190
–	2 x PNP	XMLR2D5G2P05	0.190
–	2 x NPN	XMLR2D5G2N05	0.190
1/4"- 18 NPT (female) fluid connection			
4...20 mA	1 x PNP	XMLR2D5G1P26	0.212
4...20 mA	1 x NPN	XMLR2D5G1N26	0.212
–	2 x PNP	XMLR2D5G2P06	0.212
–	2 x NPN	XMLR2D5G2N06	0.212

Electronic pressure sensors

OsiSense XM

XMLR pressure sensors with 4-digit display.
Compact plastic body, stainless steel 316L fluid entry.
With analogue and solid-state outputs.



XMLR●●●G●●●5



XMLR●●●G●●●6
XMLR●●●G●●●9

0 to 10 bar (0 to 145 psi)			
Maximum permissible accidental pressure: 40 bar, destruction pressure: 40 bar			
Analogue output type	Solid-state output type	Reference	Weight kg
G 1/4 DIN 3852-Y (female) fluid connection			
4...20 mA	–	XMLR010G0T25	0.190
0...10 V	–	XMLR010G0T75	0.190
4...20 mA	1 x PNP	XMLR010G1P25	0.190
4...20 mA	1 x NPN	XMLR010G1N25	0.190
0...10 V	1 x PNP	XMLR010G1P75	0.190
0...10 V	1 x NPN	XMLR010G1N75	0.190
–	2 x PNP	XMLR010G2P05	0.190
–	2 x NPN	XMLR010G2N05	0.190
4...20 mA	2 x PNP	XMLR010G2P25	0.190
4...20 mA	2 x NPN	XMLR010G2N25	0.190
1/4" - 18 NPT (female) fluid connection			
4...20 mA	–	XMLR010G0T26	0.212
0...10 V	–	XMLR010G0T76	0.212
4...20 mA	1 x PNP	XMLR010G1P26	0.212
4...20 mA	1 x NPN	XMLR010G1N26	0.212
0...10 V	1 x PNP	XMLR010G1P76	0.212
0...10 V	1 x NPN	XMLR010G1N76	0.212
–	2 x PNP	XMLR010G2P06	0.212
–	2 x NPN	XMLR010G2N06	0.212
4...20 mA	2 x PNP	XMLR010G2P26	0.212
4...20 mA	2 x NPN	XMLR010G2N26	0.212
SAE 7/16-20UNF-2B (female) fluid connection			
–	2 x PNP	XMLR010G2P09	0.210
–	2 x NPN	XMLR010G2N09	0.210
0 to 16 bar (0 to 232 psi)			
Maximum permissible accidental pressure: 62 bar, destruction pressure: 62 bar			
Analogue output type	Solid-state output type	Reference	Weight kg
G 1/4 DIN 3852-Y (female) fluid connection			
4...20 mA	–	XMLR016G0T25	0.190
0...10 V	–	XMLR016G0T75	0.190
4...20 mA	1 x PNP	XMLR016G1P25	0.190
4...20 mA	1 x NPN	XMLR016G1N25	0.190
0...10 V	1 x PNP	XMLR016G1P75	0.190
–	2 x PNP	XMLR016G2P05	0.190
4...20 mA	2 x PNP	XMLR016G2P25	0.190
1/4" - 18 NPT (female) fluid connection			
4...20 mA	–	XMLR016G0T26	0.212
4...20 mA	1 x PNP	XMLR016G1P26	0.212
4...20 mA	1 x NPN	XMLR016G1N26	0.212
–	2 x PNP	XMLR016G2P06	0.212
–	2 x NPN	XMLR016G2N06	0.212
0 to 25 bar (0 to 362 psi)			
Maximum permissible accidental pressure: 100 bar, destruction pressure: 100 bar			
Analogue output type	Solid-state output type	Reference	Weight kg
G 1/4 DIN 3852-Y (female) fluid connection			
4...20 mA	–	XMLR025G0T25	0.190
0...10 V	–	XMLR025G0T75	0.190
4...20 mA	1 x PNP	XMLR025G1P25	0.190
4...20 mA	1 x NPN	XMLR025G1N25	0.190
0...10 V	1 x PNP	XMLR025G1P75	0.190
0...10 V	1 x NPN	XMLR025G1N75	0.190
–	2 x PNP	XMLR025G2P05	0.190
–	2 x NPN	XMLR025G2N05	0.190
1/4" - 18 NPT (female) fluid connection			
4...20 mA	–	XMLR025G0T26	0.212
4...20 mA	1 x PNP	XMLR025G1P26	0.212
4...20 mA	1 x NPN	XMLR025G1N26	0.212
–	2 x PNP	XMLR025G2P06	0.212
–	2 x NPN	XMLR025G2N06	0.212

Electronic pressure sensors

OsiSense XM

XMLR pressure sensors with 4-digit display.

Compact plastic body, stainless steel 316L fluid entry.

With analogue and solid-state outputs.



XMLR●●●G●●●5



XMLR●●●G●●●6

XMLR●●●M●●●5
XMLR●●●M●●●6

XMLR●●●M●●●9

0 to 40 bar (0 to 580 psi)

Maximum permissible accidental pressure: 150 bar, destruction pressure: 150 bar

Analogue output type	Solid-state output type	Reference	Weight kg
G 1/4 DIN 3852-Y (female) fluid connection			
4...20 mA	–	XMLR040G0T25	0.190
0...10 V	–	XMLR040G0T75	0.190
4...20 mA	1 x PNP	XMLR040G1P25	0.190
4...20 mA	1 x NPN	XMLR040G1N25	0.190
0...10 V	1 x PNP	XMLR040G1P75	0.190
0...10 V	1 x NPN	XMLR040G1N75	0.190
–	2 x PNP	XMLR040G2P05	0.190
–	2 x NPN	XMLR040G2N05	0.190
4...20 mA	2 x PNP	XMLR040G2P25	0.190
4...20 mA	2 x NPN	XMLR040G2N25	0.190

1/4"- 18 NPT (female) fluid connection

4...20 mA	–	XMLR040G0T26	0.212
4...20 mA	1 x PNP	XMLR040G1P26	0.212
4...20 mA	1 x NPN	XMLR040G1N26	0.212
–	2 x PNP	XMLR040G2P06	0.212
–	2 x NPN	XMLR040G2N06	0.212

0 to 100 bar (0 to 1450 psi)

Maximum permissible accidental pressure: 300 bar, destruction pressure: 600 bar

Analogue output type	Solid-state output type	Reference	Weight kg
G 1/4 DIN 3852-Y (female) fluid connection			
4...20 mA	–	XMLR100M0T25	0.186
0...10 V	–	XMLR100M0T75	0.186
4...20 mA	1 x PNP	XMLR100M1P25	0.186
4...20 mA	1 x NPN	XMLR100M1N25	0.186
0...10 V	1 x PNP	XMLR100M1P75	0.186
0...10 V	1 x NPN	XMLR100M1N75	0.186
–	2 x PNP	XMLR100M2P05	0.186
–	2 x NPN	XMLR100M2N05	0.186
1/4"- 18 NPT (female) fluid connection			
4...20 mA	–	XMLR100M0T26	0.186
4...20 mA	1 x PNP	XMLR100M1P26	0.186
4...20 mA	1 x NPN	XMLR100M1N26	0.186
–	2 x PNP	XMLR100M2P06	0.186
–	2 x NPN	XMLR100M2N06	0.186

0 to 160 bar (0 to 2320 psi)

Maximum permissible accidental pressure: 480 bar, destruction pressure: 960 bar

Analogue output type	Solid-state output type	Reference	Weight kg
G 1/4 DIN 3852-Y (female) fluid connection			
4...20 mA	–	XMLR160M0T25	0.186
0...10 V	–	XMLR160M0T75	0.186
4...20 mA	1 x PNP	XMLR160M1P25	0.186
4...20 mA	1 x NPN	XMLR160M1N25	0.186
0...10 V	1 x PNP	XMLR160M1P75	0.186
0...10 V	1 x NPN	XMLR160M1N75	0.186
–	2 x PNP	XMLR160M2P05	0.186
–	2 x NPN	XMLR160M2N05	0.186
SAE 7/16-20UNF-2B (female) fluid connection			
–	2 x PNP	XMLR160M2P09	0.212
–	2 x NPN	XMLR160M2N09	0.212

Electronic pressure sensors

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XMLR pressure sensors with 4-digit display.
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XMLR●●●M●●●5
XMLR●●●M●●●6



XMLR●●●M●●●9

0 to 250 bar (0 to 3625 psi)

Maximum permissible accidental pressure: 750 bar, destruction pressure: 1500 bar

Analogue output type	Solid-state output type	Reference	Weight kg
G 1/4 DIN 3852-Y (female) fluid connection			
4...20 mA	–	XMLR250M0T25	0.186
0...10 V	–	XMLR250M0T75	0.186
4...20 mA	1 x PNP	XMLR250M1P25	0.186
4...20 mA	1 x NPN	XMLR250M1N25	0.186
0...10 V	1 x PNP	XMLR250M1P75	0.186
0...10 V	1 x NPN	XMLR250M1N75	0.186
–	2 x PNP	XMLR250M2P05	0.186
–	2 x NPN	XMLR250M2N05	0.186
4...20 mA	2 x PNP	XMLR250M2P25	0.186
4...20 mA	2 x NPN	XMLR250M2N25	0.186

1/4" - 18 NPT (female) fluid connection

4...20 mA	–	XMLR250M0T26	0.186
4...20 mA	1 x PNP	XMLR250M1P26	0.186
4...20 mA	1 x NPN	XMLR250M1N26	0.186
0...10 V	1 x PNP	XMLR250M1P76	0.186
–	2 x PNP	XMLR250M2P06	0.186
–	2 x NPN	XMLR250M2N06	0.186

SAE 7/16-20UNF-2B (female) fluid connection

–	2 x PNP	XMLR250M2P09	0.212
–	2 x NPN	XMLR250M2N09	0.212

0 to 400 bar (0 to 5800 psi)

Maximum permissible accidental pressure: 1200 bar, destruction pressure: 2400 bar

Analogue output type	Solid-state output type	Reference	Weight kg
G 1/4 DIN 3852-Y (female) fluid connection			
4...20 mA	–	XMLR400M0T25	0.186
0...10 V	–	XMLR400M0T75	0.186
4...20 mA	1 x PNP	XMLR400M1P25	0.186
4...20 mA	1 x NPN	XMLR400M1N25	0.186
0...10 V	1 x PNP	XMLR400M1P75	0.186
0...10 V	1 x NPN	XMLR400M1N75	0.186
–	2 x PNP	XMLR400M2P05	0.186
–	2 x NPN	XMLR400M2N05	0.186
4...20 mA	2 x PNP	XMLR400M2P25	0.186
4...20 mA	2 x NPN	XMLR400M2N25	0.186

1/4" - 18 NPT (female) fluid connection

4...20 mA	–	XMLR400M0T26	0.186
4...20 mA	1 x PNP	XMLR400M1P26	0.186
4...20 mA	1 x NPN	XMLR400M1N26	0.186
–	2 x PNP	XMLR400M2P06	0.186
–	2 x NPN	XMLR400M2N06	0.186

0 to 600 bar (0 to 8700 psi)

Maximum permissible accidental pressure: 1500 bar, minimum destruction pressure: 2500 bar

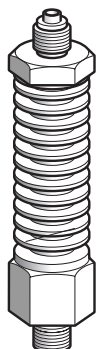
Analogue output type	Solid-state output type	Reference	Weight kg
Fluid connection G 1/4 (female)			
4...20 mA	–	XMLR600M0T25	0.186
0...10 V	–	XMLR600M0T75	0.186
4...20 mA	1 x PNP	XMLR600M1P25	0.186
0...10 V	1 x PNP	XMLR600M1P75	0.186
–	2 x PNP	XMLR600M2P05	0.186

Electronic pressure sensors

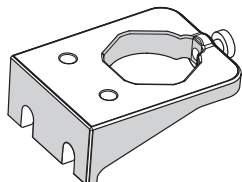
OsiSense XM

XMLR pressure sensors with 4-digit display

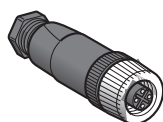
Accessories



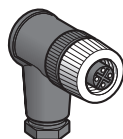
XMLZL009



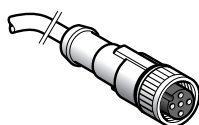
XMLZL017



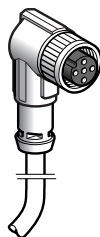
XZCC12FDM●0B



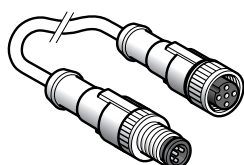
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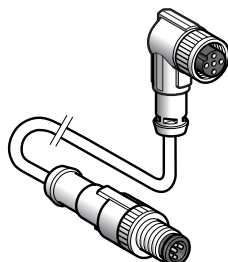
XZCP1141L●



XZCP1241L●



XZCR15110●●●●



XZCR15120●●●●

Accessories

Description	For use with	Reference	Weight kg
Cooler with G 1/4 A (male) connections Usage temperature: 150°C max. for the fluid, 50°C for the ambient air	XMLR●●●●●●●●5	XMLZL009	0.370

Fixing bracket aluminium	XMLR●●●	XMLZL017	0.029
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Connectors

Description	For use with	Type	Reference	Weight kg
M12 female connector, 4-pin	XMLR●●●●0T●● XMLR●●●●1P●● XMLR●●●●1N●●	Straight	XZCC12FDM40B	0.020
Metal clamping ring	XMLR●●●●2P0● XMLR●●●●2N0●	Elbowed	XZCC12FCM40B	0.020

M12 female connector, 5-pin	XMLR●●●●2P2● XMLR●●●●2N2●	Straight	XZCC12FDM50B	0.020
Metal clamping ring		Elbowed	XZCC12FCM50B	0.020

Pre-wired connectors and jumper cables

Description	For use with	Type	Length of cable		Reference	Weight kg
			m	kg		
Pre-wired M12, 4-pin connectors Metal clamping ring PUR cable	XMLR●●●●0T●● XMLR●●●●1●●●● XMLR●●●●2P0● XMLR●●●●2N0●	Straight	2		XZCP1141L2	0.090
			5		XZCP1141L5	0.190
			10		XZCP1141L10	0.370
		Elbowed	2		XZCP1241L2	0.090
			5		XZCP1241L5	0.190
			10		XZCP1241L10	0.370
Pre-wired M12, 5-pin connectors PVC cable	XMLR●●●●2P2● XMLR●●●●2N2●	Straight female connector	2		XZCPV11V12L2	0.100
			5		XZCPV11V12L5	0.200
			10		XZCPV11V12L10	0.400
		Elbowed female connector	2		XZCPV12V12L2	0.100
			5		XZCPV12V12L5	0.200
			10		XZCPV12V12L10	0.400
M12-M12 4-pin jumper cables PUR cable	XMLR●●●●0T●● XMLR●●●●1●●●● XMLR●●●●2P0● XMLR●●●●2N0●	Straight female connector	1		XZCR1511041C1	0.100
			2		XZCR1511041C2	0.100
		Elbowed female connector	1		XZCR1512041C1	0.100
			2		XZCR1512041C2	0.100
M12-M12 5-pin jumper cables PUR cable	XMLR●●●●2P2● XMLR●●●●2N2●	Straight female connector	1		XZCR1511064D1	0.100
			2		XZCR1511064D2	0.100
		Elbowed female connector	1		XZCR1512064D1	0.100
			2		XZCR1512064D2	0.100

X					
XMLEZ001	37	XMLK006B2C21	13	XMLP2K0PP13	36
XMLEZ010	37	XMLK006B2C71	13	XMLP2K0PP23	36
XMLEZ025	37	XMLK006B2D21	13	XMLP2K0PP73	36
XMLEZ060	37	XMLK006B2D71	13	XMLP3K0PD13	36
XMLEZ100	37	XMLK010B2C21	13	XMLP3K0PD23	36
XMLEZ250	37	XMLK010B2C71	13	XMLP3K0PD73	36
XMLEZ600	37	XMLK010B2D21	13	XMLP3K0PP13	36
XMLEZM01	37	XMLK010B2D71	13	XMLP3K0PP23	36
XMLG001D21	17	XMLK016B2C21	13	XMLP3K0PP73	36
XMLG001D23	17	XMLK016B2C71	13	XMLP004GC11F	27
XMLG001D31TQ	20	XMLK016B2D21	13	XMLP004GC21F	27
XMLG001D41TQ	20	XMLK016B2D71	13	XMLP004GC71F	27
XMLG001D71	17	XMLK025B2C21	13	XMLP004GD11F	27
XMLG001D73TQ	17	XMLK025B2D21	13	XMLP004GD21F	27
XMLG006D21	17	XMLK025B2D71	13	XMLP004GD71F	27
XMLG006D23	17	XMLK100P2C23	14	XMLP006GC11F	27
XMLG006D71	17	XMLK100P2C73	14	XMLP006GC21F	27
XMLG006D73TQ	17	XMLK100P2D23	14	XMLP006GC71F	27
XMLG010D21	18	XMLK100P2D73	14	XMLP006GD11F	27
XMLG010D23	18	XMLK100P2P23	14	XMLP006GD21F	27
XMLG010D31TQ	20	XMLK150P2C23	14	XMLP006GD71F	27
XMLG010D41TQ	20	XMLK150P2C73	14	XMLP006GL21F	27
XMLG010D71	18	XMLK150P2D23	14	XMLP006GL71F	27
XMLG010D73	18	XMLK150P2D73	14	XMLP6K0PD13	36
XMLG010D73TQ	18	XMLK150P2P23	14	XMLP6K0PD23	36
XMLG010Q21TQ	18	XMLK200P2C23	14	XMLP6K0PD73	36
XMLG010Q71TQ	18	XMLK200P2C73	14	XMLP6K0PP13	36
XMLG016D21	18	XMLK200P2D23	14	XMLP6K0PP23	36
XMLG016D23	18	XMLK200P2D73	14	XMLP6K0PP73	36
XMLG016D71	18	XMLK200P2P23	14	XMLP010BC11V	28
XMLG025D21	18	XMLK300P2C23	14	XMLP010BC21V	28
XMLG025D23	18	XMLK300P2C73	14	XMLP010BC27	28
XMLG025D31TQ	20	XMLK300P2D23	14	XMLP010BC29	28
XMLG025D41TQ	20	XMLK300P2D73	14	XMLP010BC71V	28
XMLG025D71	18	XMLK300P2P23	14	XMLP010BC79	28
XMLG025D73TQ	18	XMLP001GC2BF	26	XMLP010BD11V	28
XMLG025Q21TQ	18	XMLP001GC7BF	26	XMLP010BD19	28
XMLG100D21	19	XMLP001GC11F	26	XMLP010BD21V	28
XMLG100D23	19	XMLP001GC21F	26	XMLP010BD27	28
XMLG100D31TQ	20	XMLP001GC71F	26	XMLP010BD29	28
XMLG100D41TQ	20	XMLP001GD2BF	26	XMLP010BD71V	28
XMLG100D71	19	XMLP001GD7BF	26	XMLP010BD79	28
XMLG100D73TQ	19	XMLP001GD11F	26	XMLP10KPD13	36
XMLG100Q21TQ	19	XMLP001GD21F	26	XMLP10KPD23	36
XMLG250D21	19	XMLP001GD71F	26	XMLP10KPD73	36
XMLG250D23	19	XMLP001GL21F	26	XMLP10KPP13	36
XMLG250D31TQ	20	XMLP001GL71F	26	XMLP10KPP23	36
XMLG250D41TQ	20	XMLP1K0PD13	35	XMLP10KPP73	36
XMLG250D71	19	XMLP1K0PD23	35	XMLP015RC23F	33
XMLG250D73TQ	19	XMLP1K0PD73	35	XMLP015RC73F	33
XMLG400D21	19	XMLP1K0PP13	35	XMLP015RD23F	33
XMLG400D23	19	XMLP1K0PP23	35	XMLP015RD73F	33
XMLG400D31TQ	20	XMLP1K0PP73	35	XMLP015RP23F	33
XMLG400D41TQ	20	XMLP2D5GC11F	27	XMLP015RP73F	33
XMLG400D71	19	XMLP2D5GC21F	27	XMLP016BC11V	28
XMLG400D73TQ	19	XMLP2D5GC71F	27	XMLP016BC21V	28
XMLGM01D21	17	XMLP2D5GD11F	27	XMLP016BC27	28
XMLGM01D23	17	XMLP2D5GD21F	27	XMLP016BC29	28
XMLGM01D31TQ	20	XMLP2D5GD71F	27	XMLP016BC71V	28
XMLGM01D41TQ	20	XMLP2D5GL21F	27	XMLP016BD11V	28
XMLGM01D71	17	XMLP2D5GL71F	27	XMLP016BD19	28
XMLGM01D73TQ	17	XMLP2K0PD13	36	XMLP016BD21V	28
XMLGZ001	21	XMLP2K0PD23	36	XMLP016BD27	28
		XMLP2K0PD73	36	XMLP016BD29	28
				XMLP016BD71V	28
				XMLP025BC11V	29
				XMLP025BC21V	29
				XMLP025BC27	29
				XMLP025BC29	29
				XMLP025BC71V	29
				XMLP025BD11V	29
				XMLP025BD21V	29
				XMLP025BD27	29
				XMLP025BD29	29
				XMLP025BD71V	29
				XMLP025BD77	29
				XMLP025BD79	29
				XMLP030RC23F	33
				XMLP030RC73F	33
				XMLP030RD23F	33
				XMLP030RD73F	33
				XMLP030RP23F	33
				XMLP030RP73F	33
				XMLP040BC11V	29
				XMLP040BC21V	29
				XMLP040BC27	29
				XMLP040BC29	29
				XMLP040BC71V	29
				XMLP040BD11V	29
				XMLP040BD19	29
				XMLP040BD21V	29
				XMLP040BD27	29
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						XZCPV1141L2	37		

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