

# XMEP5K0PT130

Electronic pressure sensors, Pressure sensors XM, transmitter, XMEP, 5000 PSI, 1/4"18NPT, 0,5...4,5 V, Deutsch, set 1



## Main

|                           |                                                                                |
|---------------------------|--------------------------------------------------------------------------------|
| Range of product          | Telemecanique Pressure sensors XM                                              |
| Product or component type | Electronic pressure sensors                                                    |
| Pressure sensor type      | Pressure transmitter                                                           |
| Pressure sensor name      | XMEP                                                                           |
| Electrical circuit type   | Control circuit                                                                |
| Pressure rating           | 34473.8 kPa                                                                    |
| Local display             | Without                                                                        |
| Controlled fluid          | Fresh water (0...125 °C)<br>Air (-40...125 °C)<br>Hydraulic oil (-40...125 °C) |
| Fluid connection type     | 1/4" - 18 NPT (male)                                                           |
| Electrical connection     | DEUTSCH connector DT04-3P 3 pins                                               |
| [Us] rated supply voltage | 5 V DC SELV (voltage limits: 4.5...5.5 V)                                      |
| Current consumption       | < 7 mA                                                                         |
| Type of output signal     | Analogue                                                                       |
| Analogue output function  | 0.5...4.5 V, 3-wire                                                            |
| Quantity per set          | Set of 1                                                                       |
| Type of packing           | Individual                                                                     |

## Complementary

|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Pressure setting range                  | 0.00...34473.78 kPa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Maximum permissible accidental pressure | 103421.36 kPa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Destruction pressure                    | 206842.71 kPa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Materials in contact with fluid         | Stainless steel AISI 316L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Operating position                      | Any position                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Protection type                         | Reverse polarity<br>Load short-circuit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Electromagnetic compatibility           | Electrostatic discharge immunity test conforming to ISO 10605 criteria A 15 kV air, 15 kV contact<br>Susceptibility to electromagnetic fields conforming to ISO 11452-2 criteria A 100 V/m 200...2000 MHz<br>Susceptibility to electromagnetic fields conforming to ISO 11452-4 criteria A 100 mA 20...400 MHz<br>Susceptibility to conducted disturbances conforming to EN/IEC 61000-4-6 criteria A 30 V 0.15...80 MHz<br>Electrical fast transient/burst immunity test conforming to EN/IEC 61000-4-4 criteria A 4 kV<br>Susceptibility to conducted transient disturbances conforming to ISO 7637-2 criteria B level 3 |
| [Uimp] rated impulse withstand voltage  | 0.5 kV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Response time on output                 | <= 2 ms 10...90 % of full scale                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Measurement accuracy                    | +/- 0.5 % of the measuring range                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Resolution                              | 0.1 % of the measuring range                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Drift of the sensitivity                | +/- 0.02 % of measuring range/°K                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Drift of the zero point                 | +/- 0.02 % of measuring range/°K                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Long term stability                     | +/- 0.5 % of the measuring range                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Mechanical durability                   | 10000000 cycles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Net weight                              | 0.098 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

|          |         |
|----------|---------|
| Diameter | 26 mm   |
| Length   | 63.4 mm |

## Environment

|                                       |                                                                                                                                    |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Standards                             | UL 61010-1<br>ECE 10R-5<br>ISO 14982<br>EN/IEC 61326-2-3<br>ISO 13766<br>EN 13309                                                  |
| Product certifications                | CE[RETURN]E2[RETURN]cULus                                                                                                          |
| Ambient air temperature for operation | -40...100 °C                                                                                                                       |
| Ambient air temperature for storage   | -50...100 °C                                                                                                                       |
| Vibration resistance                  | 12 gn sinus (f = 20...520 Hz) test 4 conforming to ISO 16750-3<br>18 gn random (f = 10...2000 Hz) test 4 conforming to ISO 16750-3 |
| Shock resistance                      | 50 gn for 11 ms conforming to EN/IEC 60068-2-27                                                                                    |
| IP degree of protection               | IP65 conforming to EN/IEC 60529<br>IP67 conforming to EN/IEC 60529<br>IP69K conforming to EN/IEC 60529                             |

## Packing Units

|                              |         |
|------------------------------|---------|
| Unit Type of Package 1       | PCE     |
| Number of Units in Package 1 | 1       |
| Package 1 Height             | 4.32 cm |
| Package 1 Width              | 4.83 cm |
| Package 1 Length             | 8.64 cm |
| Package 1 Weight             | 0.1 kg  |

## Offer Sustainability

|                                            |                                                                                                                                                                                                                                                                                                                                                                                   |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status                   | Green Premium product                                                                                                                                                                                                                                                                                                                                                             |
| Circularity Profile                        | No need of specific recycling operations                                                                                                                                                                                                                                                                                                                                          |
| California proposition 65                  | WARNING: This product can expose you to chemicals including: Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |
| For all Reach Rohs enquiries contact us at | <a href="mailto:sustainability@tesensors.com">sustainability@tesensors.com</a>                                                                                                                                                                                                                                                                                                    |

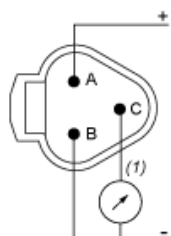
- (1) SW24, tightening torque □ 24 N-m / 212 lb-in

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Connections and Schema

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Connector Wiring



(1) V out

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Performance Curves

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Curves

