

# PET-1RP5KON10SRMR

PET

**PRESSURE SENSORS** 





## Ordering information

Туре	Part no.
PET-1RP5K0N10SRMR	6072413

Other models and accessories → www.sick.com/PET

Illustration may differ



#### Detailed technical data

#### **Features**

Pressure type	Gauge pressure
Measuring range	0 psi 5,000 psi
Process temperature	-30 °C +100 °C
Output signal	0.5 V 4.5 V, ratiometric, 3-conductor
Pieces per package	50 pieces

#### Mechanics/electronics

Process connection	1⁄4" NPT		
Seal	Without seal		
Wetted parts	Stainless steel, stainless steel 13-8 PH		
Pressure port	3.5 mm Standard		
Housing material	Stainless steel 316L, PBT GF30		
Connection type	M12 round connector x 1, 4-pin		
Enclosure rating	IP67, for round connector (IEC 60529) 1)		
Supply voltage	5 V DC, $\pm$ 10 $\%$ <sup>2)</sup>		
Maximum ohmic load R <sub>A</sub>	$> 4.5 \text{ k}\Omega$ with ratiometric output signal		
Maximum power consumption	5 mA		
Initialization time	15 ms		
Protection class	III		
Isolation voltage	750 V DC		
Overvoltage protection	36 V DC		
Short-circuit protection	Output Q <sub>A</sub> towards M		
Reverse polarity protection	L <sup>+</sup> towards M		
<b>CE-conformity</b>	2004/108/EC, EN 61326-1 emission (group 1, class B) and interference immunity (industrial application) and pressure equipment directive $97/23/EC$		

<sup>1)</sup> The enclosure rating classes specified only apply while the thermometer is connected with female connectors that provide the corresponding enclosure rating.

<sup>2)</sup> The pressure transmitter must be supplied with power by a limited energy circuit compliant with 9.3 of UL/EN/IEC 601010-1 or LPS to UL/EN/IEC 60950-1 or Class 2 to UL 1310/UL1585 (NEC or CEC). The power supply must be suitable for operation above 2,000 m if the pressure transmitter is used above this altitude.

RoHS certificate	✓
Service life	Minimum 10 Mio. load cycles
MTTF	> 100 years

<sup>1)</sup> The enclosure rating classes specified only apply while the thermometer is connected with female connectors that provide the corresponding enclosure rating.

#### Performance

Non-linearity	$\leq \pm~0.5~\%$ of span (best fit straight line, BFSL)		
Accuracy	$\leq$ ± 1.2 % of span (at room temperature)		
Response time	< 2 ms		
Measurement deviation of zero signal	$\leq$ ± 0.5 % of the span		
Temperature error	$\leq$ ± 1.5 % of the span		
Long-term drift/one-year stability	≤ ± 0.3 % of span (per year)		
Rated temperature range	0 °C +80 °C		
Reference conditions	According to IEC 61298-1		

#### Ambient data

Ambient temperature, operation	-30 °C +100 °C
Storage temperature	-30 °C +100 °C
Shock load	40 g (6 ms) according to IEC 60068-2-27 (mechanical shock)
Vibration load	20 g (20 Hz 2000 Hz, 120 min) according to IEC 60068-2-6 (vibration at resonance)

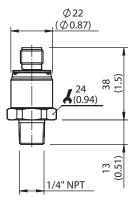
#### Classifications

ECLASS 5.0	27200614
ECLASS 5.1.4	27200614
ECLASS 6.0	27200614
ECLASS 6.2	27200614
ECLASS 7.0	27200614
ECLASS 8.0	27200614
ECLASS 8.1	27200614
ECLASS 9.0	27200614
ECLASS 10.0	27200614
ECLASS 11.0	27200614
ECLASS 12.0	27200614
ETIM 5.0	EC011478
ETIM 6.0	EC011478
ETIM 7.0	EC011478
ETIM 8.0	EC011478
UNSPSC 16.0901	41112410

<sup>2)</sup> The pressure transmitter must be supplied with power by a limited energy circuit compliant with 9.3 of UL/EN/IEC 601010-1 or LPS to UL/EN/IEC 60950-1 or Class 2 to UL 1310/UL1585 (NEC or CEC). The power supply must be suitable for operation above 2,000 m if the pressure transmitter is used above this altitude.

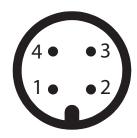
### Dimensional drawing (Dimensions in mm (inch))

Process connection 1/4" NPT with round connector M12 x 1, 4-pin



## Connection type

M12 round connector x 1, 4-pin



Assignment	L+	М	Q <sub>A</sub>
2-wire	1	3	-
3-wire	1	3	4

- ① L<sup>+</sup>: Positive supply connection
- ② M: Negative supply connection
- ③ Q<sub>A</sub>: Analog output

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We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is "Sensor Intelligence."

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