

Temperature sensors & switches

MOTOMETER



MOTOMETER Temperature sensor

MOTOMETER temperature sensors have a NTC resistor, that records the temperature of oil, water or air and forwards the measurement result to a temperature display. Brass casings are used, along with a special gel in the sensor housing, for the fast transfer of the detected temperature with little loss.

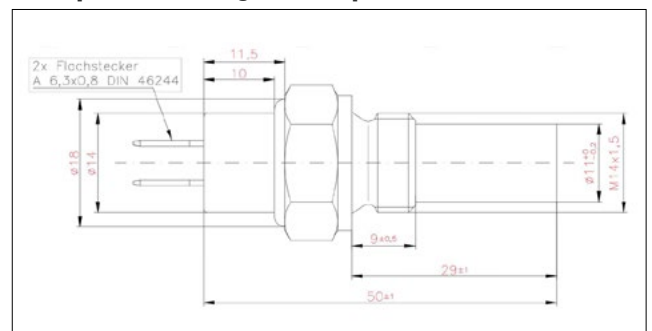
Operation is possible with 12 Volt or 24 Volt on-board supply system. The temperature range is between 40 °C and 120 °C or between 50°C and 150°C, depending on the type.

In addition to the listed standard temperature sensors, we can also offer you customised solutions.

The following temperature sensors are available:

- Temperature sensor (40 °C – 120 °C)
- Temperature sensor (50 °C – 150 °C)
- Temperature sensor with warning contact
- Temperature switch

Example: A drawing of a temperature sensor



Special wishes? We deliver customized solutions!

In addition to the standard temperature sensors listed, we can also offer you customized specific solutions. Simply contact us with your requirements via the adjacent button:

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Temperature sensors (40 °C - 120 °C)

The resistance characteristic is identical for all sensors

60 °C	134,0 Ohm
90°C	51,2 Ohm
100°C	38,5 Ohm

Compatible with MOTOMETER temperature displays

641 011 xxxx
641 012 xxxx

Thread	Connection	Install. depth	Feature	Measuring range	Voltage	Art. Nr.
M10 x 1 K	A 6,3 x 0,8	10,5 mm	-	40 - 120 °C	6 - 24 Volt	642 007 1015
-	3m cable	15,5 mm	-	40 - 120 °C	6 - 24 Volt	642 013 1007
M14 x 1,5	ø 4mm	24 mm	-	40 - 120 °C	6 - 24 Volt	642 007 1018
M14 x 1,5	Thread M4	29 mm	-	40 - 120 °C	6 - 24 Volt	642 007 1001
M14 x 1,5	A 6,3 x 0,8	29 mm	-	40 - 120 °C	6 - 24 Volt	642 007 1006
M14 x 1,5	A 6,3 x 0,8	29 mm	ground isolated	40 - 120 °C	6 - 24 Volt	642 011 1001
M16 x 1,5	A 6,3 x 0,8	29 mm	-	40 - 120 °C	6 - 24 Volt	642 007 1021
1/2"-14 NPTF	A 6,3 x 0,8	29 mm	-	40 - 120 °C	6 - 24 Volt	642 007 1009
1/2"-14 NPTF	A 6,3 x 0,8	29 mm	ground isolated	40 - 120 °C	6 - 24 Volt	642 011 1004

Temperature sensors (50 °C - 150 °C)

The resistance characteristic is identical for all sensors

60 °C	221,2 Ohm
90°C	83,0 Ohm
120°C	36,5 Ohm

Compatible with MOTOMETER temperature displays

641 011 xxxx
641 012 xxxx

Thread	Connection	Install. depth	Connection characteristic	Measuring range	Voltage	Art. Nr.
M14 x 1,5	A 6,3 x 0,8	15 mm	vertical	50 - 150 °C	6 - 24 Volt	642 009 1002
M14 x 1,5	A 6,3 x 0,8	30 mm	straight	50 - 150 °C	6 - 24 Volt	642 009 1021
M14 x 1,5	A 6,3 x 0,8	30 mm	straight, ground isolated	50 - 150 °C	6 - 24 Volt	642 012 1001
1/2"-14 NTPF	A 6,3 x 0,8	30 mm	straight	50 - 150 °C	6 - 24 Volt	642 009 1019
3/8"-18 NTPF	A 6,3 x 0,8	29 mm	straight	50 - 150 °C	6 - 24 Volt	642 009 1034

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Temperature sensor with warning contact

Temperature sensors with a warning contact are used in vehicles and machines to record the temperature of oil, water or air and to forward the measurement result to a temperature display. A warning contact is closed at the same time as a defined temperature is reached.

MOTOMETER temperature sensors with a warning contact have a NTC resistor, a brass casing and a special gel for rapid temperature transfer with little loss. The pre-tensioned bimetal strips are relaxed when the defined temperature is reached and the contact close.

Operation is possible with 12 Volt or 24 Volt on-board supply system. The switching capacity is 3 W.

The resistance characteristic is identical for all sensor

60 °C	134,0 Ohm
90 °C	51,2 Ohm
100 °C	38,5 Ohm

Compatible with MOTOMETER temperature displays

641 011 xxxx
641 012 xxxx
Also mass-free available.

Warning contact (+/-3 °C)	Thread	Measuring range	Connection	Art. Nr.
80 °C	M14 x 1,5	40 – 120 °C	A 6,3 x 0,8	642 016 1001
90 °C	M14 x 1,5	40 – 120 °C	A 6,3 x 0,8	642 016 1002
92 °C	M14 x 1,5	40 – 120 °C	A 6,3 x 0,8	642 016 1003
95 °C	1/2"-14 NPTF	40 – 120 °C	A 6,3 x 0,8	642 016 1015
96 °C	M14 x 1,5	40 – 120 °C	A 6,3 x 0,8	642 016 1005
98 °C	M14 x 1,5	40 – 120 °C	A 6,3 x 0,8	642 016 1006
100 °C	M14 x 1,5	40 – 120 °C	A 6,3 x 0,8	642 016 1007
103 °C	M14 x 1,5	40 – 120 °C	A 6,3 x 0,8	642 016 1008
103 °C	M18 x 1,5	40 – 120 °C	A 6,3 x 0,8	642 016 1025
103 °C	1/2"-14 NPTF	40 – 120 °C	A 6,3 x 0,8	642 016 1016
106 °C	M14 x 1,5	40 – 120 °C	A 6,3 x 0,8	642 016 1009
110 °C	M14 x 1,5	40 – 120 °C	A 6,3 x 0,8	642 016 1010
115 °C	M14 x 1,5	40 – 120 °C	A 6,3 x 0,8	642 016 1012
120 °C	M14 x 1,5	50 – 150 °C	A 6,3 x 0,8	642 040 1001
130 °C	M14 x 1,5	50 – 150 °C	A 6,3 x 0,8	642 018 1001

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Temperature switch

Temperature switches are used in vehicles and machines to record the temperature of oil, water or air and to close a warning contact when a defined temperature is reached.

The MOTOMETER temperature switches have pretensioned bimetal strips. The use of brass casings and a special integrated gel allows fast temperature transmission with little loss. When the respective temperature range is reached, the pre-tensioning is released and the contact is closed with a switching capacity of 3 W or 100 W.

Operation is possible with an onboard 12 Volt or 24 Volt mains. The voltage for all temperature switches is 6 - 24 volts.

In addition to the listed standard temperature switches, we can also offer you customised solutions.

Warning contact	Tolerance	Thread	Connection	Switching capacity	Features	Art. Nr.
55 °C	+/- 3 °C	M14 x 1,5	A 6,3 x 0,8	100 W	ground isolated	610 006 1006
55 °C	+/- 3 °C	M14 x 1,5	A 6,3 x 0,8	3 W	-	610 003 1005
70 °C	+/- 3 °C	M14 x 1,5	A 6,3 x 0,8	3 W	-	610 003 1007
85 °C	+/- 3 °C	M14 x 1,5	A 6,3 x 0,8	3 W	-	610 003 1008
90 °C	+/- 3 °C	M14 x 1,5	A 6,3 x 0,8	3 W	-	610 003 1009
95 °C	+/- 3 °C	M14 x 1,5	A 6,3 x 0,8	3 W	-	610 003 1012
On: 70 °C	Off: 60 °C	M14 x 1,5	A 6,3 x 0,8	100 W	Control switch, ground isolated	610 004 1006
On: 82 °C	Off: 74 °C	M18 x 1,5	A 6,3 x 0,8	100 W	Control switch, ground isolated	610 004 1004