



PLUS Line: Temperature displays



Temperature displays

MOTOMETER temperature displays are equipped with a precise rotation quotient measuring unit that accurately shows the temperature measured by the sensor.

The temperature displays have a metal housing in order to provide the best possible protection and stability and thereby guarantee a long service life. The instruments are illuminated by a flood light type. In the case of the standard types, the dial is black with white numbers and a red pointer.

The front ring is of a black triangular design.

Operation with a 12 Volt or 24 Volt on-board supply system is possible, depending on the type.

The temperature displays are available both unearthed, as well as with different labelling of the dial (e.g. with other symbol imprints or colours) or a chrome front ring.

Resistance characteristic

20 °C - 100 °C

20 °C	700,0 Ohm
40 °C	287,8 Ohm
60 °C	134,0 Ohm
100 °C	38,5 Ohm

40 °C - 120 °C

40 °C	287,4 Ohm
80 °C	69,1 Ohm
100 °C	38,5 Ohm
120 °C	22,7 Ohm

50 °C - 150 °C

50 °C	322,8 Ohm
90 °C	83,0 Ohm
120 °C	36,5 Ohm
150 °C	18,6 Ohm

Compatible with MOTOMETER temperature sensors of series

642 007 xxxx 642 009 xxxx 642 010 xxxx 642 011 xxxx 642 016 xxxx

MOTOMETER

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Measuring range	Voltage	ø mm	Feature	Symbol	Resistance	Part No.
20 - 100 °C	24 V	52		Hydraulic oil	700,0...38,5 Ohm	641 011 1046
40 - 120 °C	12 V	52		Cooling water	287,4...22,7 Ohm	641 011 1048
40 - 120 °C	24 V	52		Cooling water	287,4...22,7 Ohm	641 011 1049
40 - 120 °C	24 V	52	Warning LED red	Cooling water	287,4...22,7 Ohm	641 011 1057
40 - 120 °C	12 V	60		Cooling water	287,4...22,7 Ohm	641 012 1058
40 - 120 °C	24 V	60		Cooling water	287,4...22,7 Ohm	641 012 1060
40 - 120 °C	24 V	60	unearthed	Cooling water	287,4...22,7 Ohm	641 012 1072
50 - 150 °C	12 V	52		Engine oil	322,8...18,6 Ohm	641 011 1050
50 - 150 °C	24 V	52		Engine oil	322,8...18,6 Ohm	641 011 1044
50 - 150 °C	24 V	60		Engine oil	322,8...18,6 Ohm	641 012 1051

Outside temperature displays

MOTOMETER outside temperature displays show temperatures of -30 °C to +60 °C on a LCD display.

The outside temperature displays are available with diameters of 52 mm and 60 mm for flush-mounting, as well as 52 mm diameter with a surface-mounting fixture.

The installed warning LED lights up yellow in the temperature range below +2 °C. The displays are illuminated by LEDs.

Operation is possible with 10 to 30 Volt on-board systems.

Measuring range	ø mm	Depiction	Feature	Dial	Use	Part No.
-30 up to + 60 °C	52	LCD display/warning LED yellow	without sensor	black	Attechmend / assembly	641 018 1003
-30 up to+ 60 °C	52	LCD display/warning LED yellow	without sensor	black	Assembly	641 018 1010
-30 up to + 60 °C	52	LCD display/warning LED yellow	with sensor	black	Attechmend / assembly	641 500 4103
-30 up to + 60 °C	52	LCD display/warning LED yellow	with sensor	black	Assembly	641 500 4112

Compatible with MOTOMETER temperature sensors of series

642 013 1007 and 642 013 1008

Resistance characteristic

-40 °C - 60 °C

- 40 °C	10828,0 Ohm
- 20 °C	3673,9 Ohm
0 °C	1421,0 Ohm
20 °C	613,3 Ohm
40 °C	292,0 Ohm
60 °C	149,1 Ohm

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