



## DISPLAYS: Temperature displays

# MOTOMETER

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### 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		40 °C – 120 °C		50 °C – 150 °C		60 °C – 250 °C	
20 °C	700.0 Ohm	40 °C	287.4 Ohm	50 °C	322.8 Ohm	60 °C	63.1 Ohm
40 °C	287.8 Ohm	80 °C	69.1 Ohm	90 °C	83.0 Ohm	150 °C	60.9 Ohm
60 °C	134.0 Ohm	100 °C	38.5 Ohm	120 °C	36.5 Ohm	200 °C	22.5 Ohm
100 °C	38.5 Ohm	120 °C	22.7 Ohm	150 °C	18.6 Ohm	250 °C	11.3 Ohm

### Compatible with MOTOMETER temperature sensors of series

642.007 xxxx

642.009 xxxx

642.010 xxxx

642.011 xxxx

642.016 xxxx

### MOTOMETER GmbH

Talweg 8 | 75417 Muehlacker-Lomersheim/DE

Phone +49 7041 9695-0 | Fax +49 7041 9695-55 | E-Mail [info@motometer.de](mailto:info@motometer.de)

[www.motometer.de](http://www.motometer.de)



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Measuring range	Voltage	ø mm	Use	Symbol	Colour panel	Part No.
20 – 100 °C	12 V	52		Hydraulic oil		641.011.1045
20 – 100 °C	24 V	52		Hydraulic oil		641.011.1046
20 – 100 °C	12 V	60	unearthed	Hydraulic oil		641.012.1061
20 – 100 °C	24 V	60	unearthed	Hydraulic oil		641.012.1062
40 – 120 °C	12 V	52		Cooling water		641.011.1048
40 – 120 °C	24 V	52		Cooling water		641.011.1049
40 – 120 °C	12 V	52	Warning LED red	Cooling water		641.011.1056
40 – 120 °C	24 V	52	Warning LED red	Cooling water		641.011.1057
40 – 120 °C	24 V	52	Warning LED red	Gear oil		641.011.1059
40 – 120 °C	24 V	52		without		641.011.1065
40 – 120 °C	24 V	52		Cooling water	40 - 65 °C white 65 - 105 °C green 105 - 120 °C red	641.011.1066
40 – 120 °C	12 V	60		Cooling water		641.012.1058
40 – 120 °C	24 V	60		Cooling water		641.012.1060
40 – 120 °C	24 V	60	unearthed	Cooling water		641.012.1072
50 – 150 °C	12 V	52		Engine oil		641.011.1050
50 – 150 °C	24 V	52		Engine oil		641.011.1044
50 – 150 °C	12 V	52	Warning LED red	Engine oil		641.011.1060
50 – 150 °C	24 V	52	Warning LED red	Engine oil		641.011.1061
50 – 150 °C	12 V	52		without		641.011.7017
50 – 150 °C	24 V	52		without		641.011.7068

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Measuring range	Voltage	ø mm	Use	Symbol	Colour panel	Part No.
50 – 150 °C	24 V	60		Engine oil	50 - 130 °C green 130 - 150 °C red	641.012.1038
50 – 150 °C	12 V	60		Engine oil		641.012.1059
50 – 150 °C	24 V	60		Engine oil		641.012.1051
50 – 150 °C	24 V	60	unearthed	Engine oil		641.012.1073

### 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	Voltage	ø mm	Depiction	Special feature	Dial	Front ring	Use	Part No.
-30 – 60 °C	10 – 30 V	52	LCD display/ Warning LED yellow	without sensor	black	black	Attachment/ assembly	641.018.1003
-30 – 60 °C	10 – 30 V	52	LCD display/ Warning LED yellow	without sensor	black	black	Assembly	641.018.1010
-30 – 60 °C	10 – 30 V	52	LCD display/ Warning LED yellow	with sensor	black	black	Attachment/ assembly	641.500.4103
-30 – 60 °C	10 – 30 V	52	LCD display/ Warning LED yellow	with sensor	black	black	Assembly	641.500.4112

All data subject to technical changes.

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