



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 off-earthed, 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

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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	off-earthed	Hydraulic oil		641.012.1061
20 – 100 °C	24 V	60	off-earthed	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	off-earthed	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	off-earthed	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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