



- ◀ Instrument with LED-Illumination.
- External resistor required for 24V operation
- ▶ Optional (extra-price) chrome/brass ring available.



➤ **VOLTMETER**

Rated voltage 12 V or 24 V, power consumpt. max. 65 mA/12 V or max. 32 mA/24 V, installation depth 76 mm

- 8-16 Volt - ø 52 mm Order-No.: 2 0774 0611
- 16-32 Volt - ø 52 mm Order-No.: 2 0774 0801



➤ **AMMETER**

Ammeter with LED-illumination for external resistor (shunt) Please order shunt separately.

- AMP 0-100 A- ø 52 mm Order-No.: 2 0776 0061
- SH 100/60 Shunt 100 A/60 mV Order-No.: 7 3060 0100
- AMP 80-0-80 A- ø 52 mm Order-No.: 2 0776 0041
- SH 80/60 Shunt 80 A/60 mV Order-No.: 7 3060 0080



➤ **PRESSURE MEASURING INSTRUMENT**

Pressure measuring instruments with resistance range of 10-180 With LED illumination. Nominal voltage 12 V, 24 V with resistor R_{turo}, power consumption max. 80 mA/ 14 V, installation depth 76 mm. Matching the VDO-pressure sensors.

- Druck 5 bar ø 52 mm Order-No.: 2 0771 0681
- Druck 10 bar ø 52 mm Order-No.: 2 0771 0761
- Druck 25 bar ø 52 mm Order-No.: 2 0771 0781



➤ **TEMPERATURE MEASURING INSTRUMENT**

Temperature measurement instrument for cooling water temperature (40-120 °C). With LED illumination. Matching the VDO-temperature sensors. Nominal voltage 12 V, 24 V with resistor R_{turo}, power consumption max. 80 mA/ 14 V, installation depth 76 mm

- Temp 120°C ø 52 mm Order-No.: 2 0772 0641



➤ **OPERATING HOURS COUNTER**

The hours meters indicates the effective working time of the engine from starting until stop. With LED illumination. Nominal voltage 12/24 V, power consumption 5 mA/14 V, Scale range: 0-99999,9 h, installation depth 83 mm

- HOURS ø 52 mm Order-No.: 2 0761 0461



➤ **TACHOMETER FOR CLAMP W**

Tachometer for diesel and gasoline engines to be connected to the terminal W of the alternator. For each adjustable pulley - range of 1:1.4 to 1:4.. With illumination. Nominal voltage 12 V, 24 V with resistor R_{turo}

- RPM 2500 ø 85 mm Order-No.: 2 0701 1103
- RPM 3500 ø 85 mm Order-No.: 2 0701 1213
- RPM 6000 ø 85 mm Order-No.: 2 0701 1263

➤ **TACHOMETER FOR CLAMP 1**

Tachometer for gasoline engines with conventional ignition. For 2/4 cycles. The cylinder number is switchable on the rear side. installation depth 97 mm. Suitable for 12/10/8/6/4 cyl. 4 cycles, or 6/5/4/3/2 Zyl. 2-cycles-engines. With LED illumination Nominal voltage 12 V, 24 V with resistor R_{turo}, power consumption max. 40 mA/14 V.

- RPM 8000 ø 85 mm Order-No.: 2 0704 1433

Oil Pressure Sensor 6-24 V, screw connection with M4 (2-pole). Over-pressure protected 30 bar(2 s) or max. 50 bar (2 s, with 25 bar - sensor)

- DG 5 bar M10 x 1keg 6 8103 2002
- DG 10 bar M14 x 1,5 6 8103 2006
- DG 25 bar M14 x 1,5 6 8103 8001

Temperature sensor for cooling water, ground free. Measurement range 40-120 °C. 6-24 V, Flat spade conn. 6.3 x 0.8 mm. Isol. housing.

- TG 120 °C Nr.: 6 8500 1001

Temperature sensor for cooling water with warn contact. Switch capacity 3 W. Measurement range 40-120 °C. 6-24 V. Flat spade connection 6.3 x 0.8 mm and 4.8 x 0.8 mm for warn contact.

- TG -W 120 °C Nr.: 6 8300 1015



- SUM 12/24 V Nr.: 2 0809 0011

Buzzer 12/24 V 52mm



- R_{turo} No.: 2 0800 2000

Ext. resistor for 24 V -operation



Illumination

- GL 12 V/1 W Nr.: 2 0800 1012
- GL 24 V/1 W Nr.: 2 0800 1024
- Bulb for 52 mm-instruments
- GL 12 V/3 W Nr.: 2 0800 3012
- GL 24 V/3 W Nr.: 2 0800 3024
- Bulb for 52 mm-instruments