

# OPERATING MANUAL dV-2 Cool

## DIGITAL MANOMETER FOR COOLING SYSTEM EXAMINATION



- ① SELECT-Key
- ② Actual Value
- ③ Activated Coolant
- ④ ENTER-Key, On/Off
- ⑤ Pressure Connection

The dV-2 Cool is a digital pressure gauge with high resolution and accuracy (0,1 %FS). It is calibrated from vacuum (0 bar abs.) to 40 bar abs. or 80 bar abs. (depending on the ranges supplied). It can be used for general pressure measurement applications within these ranges. The high resolution of the dV-2 Cool, 1 mbar (40 bar range) and 2 mbar (80 bar range) can be fully utilised when conducting leakage tests in coolant systems.

Being used in a closed cooling circuit, the dV-2 Cool calculates the system temperature according to the vapour pressure graphs of the coolant. As a standard, the calculations of 5 coolants are pre-programmed and can be activated individually.

**Turn-On** Pressing either key turns the instrument on. When pressing the right key (ENTER), the dV-2 Cool immediately indicates the actual pressure. When turning on with the left key, the instrument first displays the software version (month/year), followed by the full scale pressure range (in bar). When the instrument is turned on, an arrow is pointing to the pressure unit in use. If the battery symbol (🔋) lights up, the battery must be replaced. A triangle with an exclamation mark (⚠) indicates that the instrument is in the continuous operation mode (if not, the instrument turns off 15 minutes after the last key function).

**Turn-Off** Pressing the right key (ENTER) turns the instrument off.

**Display Mode** Press SELECT. The display switches between the indication of pressure and coolant temperature. If the called up display should remain active, press ENTER (within 5 seconds). The setting will be confirmed by the indication of *DONE*.

▲ *ON* or ▲ *OFF* Press SELECT 2x. The display shows ▲ *ON*, if the automatic turn-off function (15 min.) is activated, ▲ *OFF* if the instrument is in the continuous mode. Pressing the ENTER-key switches between ▲ *ON* and ▲ *OFF*.

**Coolant Selection** Press SELECT 4x. The display shows *GAS* and the upper arrow points to a coolant. Pressing SELECT leads to the next coolants. Pressing ENTER (within 5 seconds) activates the indicated coolant. The display indicates *DONE* to confirm the change of coolant. If it is not confirmed, the dV-2 Cool returns to the originally selected coolant.

**Units** Press SELECT until *UNITS* appears. Pressing ENTER changes the unit display. It can be switched between bar/°C and PSI/°F.

## NOTES

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- 1) The functions and units can also be called up by keeping the **SELECT**-key depressed. Releasing the key enables the displayed function or unit to be activated with the **ENTER**-key.
- 2) If the selected function or unit is not activated within 5 seconds with the **ENTER**-key, the dV-2 Cool returns to the measuring mode without changing any settings.
- 3) Turning the dV-2 Cool on and off (or a battery change) does not influence any of the previous settings.
- 4) If a pressure can not be represented on the display, *UFL* (underflow) or *DFL* (overflow) appears on the display.
- 5) If the actual pressure goes beyond the measuring range of the instrument, the last valid pressure value starts flashing on the display.
- 6) *ERROR* appears if a calculation of the gas temperature is not possible due to exceeding or under-running the pressure.

## INSTALLATION

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Screw the dV-2 Cool into the pressure port and tighten using the hexagon of the transducer (pressure connection). If necessary, adjust the manometer housing.

The instrument may only be installed and operated by authorized qualified personnel.

## BATTERY CHANGE

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Carefully pull forward the front-sided cover by hand. Pull the battery out of the battery holder and insert a new one (type CR 2032 Lithium 3,0 V). Snap the cover back into its place.

## RANGES / CALIBRATION

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The factory setting of the zero is at 0 bar absolute.

**Declaration of Conformity**  
**(will follow shortly)**

