

# DIGITAL MANOMETER WITH SWITCH OUTPUTS

## USER SELECTED SWITCHING POINTS AND FUNCTIONS

The dV-2 PS is a sophisticated digital pressure gauge with two independent pressure switch outputs. The gauge employs KELLER's proven microprocessor technology which produces highly accurate results. All readings are linearised and temperature corrected, to give an accuracy of 0,2 %FS.

There are two independent switches for High and Low control functions. These are solid state and therefore not subject to wear. The switch points are programmed directly from the two front panel buttons and a menu system. Alternatively, the dV-2 PS can be connected via the RS485 link to a laptop/PC, and configured using KELLER's "Pressure Switch Console" software. User defined configurations can be stored on the computer for future reference. Pressure sequences can also be monitored and recorded on the PC for application diagnostic purposes using KELLER's Read30 software.

Two independent floating switches are available; neither is subject to wear and they can be operated individually as make or break contacts. The switch can provide a window function or be utilised as a hysteresis switch. These switching functions enable the dV-2 PS to assume control tasks. Respective switch output status is displayed on an LED located on the front.

dV-2 PS has the following functions:

- High/Low**      The maximum and minimum values are indicated via the SELECT button.
- Reset**            Allows the max. and min. value to be reset at the actual pressure value.
- Zero**              Sets the zero to any value as a new zero reference. Barometric pressure variations can thus be compensated.  
The factory setting of the zero for the ranges ≤ 61 bar is at 0 bar absolute. For sealed gauge pressure measurements, activate "ZERO SET" at ambient pressure. Instruments with ranges > 61 bar are calibrated in a sealed gauge mode with ambient pressure as a zero reference.
- Switch**            Configuration of the switch outputs. Switch points, switch window, switch hysteresis, open and close.
- Units**              The pressure can be displayed in bar, MPa or PSI.

# dV-2 PS



dV-2 PS



Display Segments dV-2 PS

| SPECIFICATIONS                    |   |             |             |             |
|-----------------------------------|---|-------------|-------------|-------------|
| Pressure Ranges absolute          | 0...4 bar   | 0...31 bar  | 0...200 bar | 0...700 bar |
| Pressure Ranges relative          | -1...3 bar  | -1...30 bar |             |             |
| Display Resolution                | 1 mbar  | 10 mbar     | 100 mbar    | 100 mbar    |
| Overpressure                      | 1,5 x pressure range  |             |             |             |
| Accuracy *                        | 0,1 %FS   |             |             |             |
| Temperature Range                 | 0...50 °C   |             |             |             |
| Stability                         | typ. 0,1 %FS    max. 0,2 %FS  |             |             |             |
| Digital Indicators LCD            | 8 x per second  |             |             |             |
| Measuring Interval / Switch Delay | ≈ 40 ms   |             |             |             |
| Supply                            | 8...28 VDC  |             |             |             |
| Switch Outputs                    | 2 pcs. PhotoMOS-Relais 28 V / 0,4 A   |             |             |             |
| Pressure Connection               | G 1/4" or Cutting ring/clamping ring, ø 6 mm (only up to 600 bar). Optional: other connections. |             |             |             |
| Electrical Connection             | Binder (8 pole) or PG-7 cable input with spring clip in the instrument                          |             |             |             |
| Interface                         | RS 485  |             |             |             |
| Protection                        | IP 64   |             |             |             |
| Width x Height x Depth            | 68 x 70 x 35 mm   |             |             |             |
| Weight                            | ≈ 100 g (with rubber protection ≈136 g)   |             |             |             |
| Optional Accessories              | Protective rubber covering, front display with customer logo                                    |             |             |             |

\* Includes linearity, repeatability, hysteresis and temperature error. Does not include Zero stability.