

DIGITAL MANOMETER

FOR HIGH-VOLUME APPLICATIONS

The dV-2 Series incorporates many of KELLER's latest developments in electronics to produce a simple low cost digital pressure gauge that is packed full of features normally found only on expensive instruments. The dV-2 can be set up to perform various measuring functions via two front panel operating buttons. Gauges are available in three accuracy classes:

- ➔ 0,5 %FS (Standard)
- ➔ 0,2 %FS (Silver)
- ➔ 0,1 %FS (Gold)

The internal microprocessor has great flexibility. It can be programmed during manufacture to perform numerous functions, and this enables KELLER to offer customised products for specific applications where larger quantities are involved.

Customised devices can be used for applications such as button-controlled testing, or for measuring tasks where calculations are required, the display will show the test results.

The dV-2 is designed to be integrated into end-user applications and is offered with a range of housing variants and process pressure connections. The gauges can be supplied with any KELLER pressure sensor to suit the customer's application. This means it is possible to produce cost-effective small batches that are perfectly adapted to suit the application requirements.

dV-2 has the following functions:

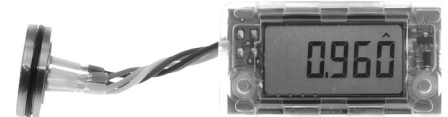
- MAX/MIN** Accessed via the **SELECT** button; displays maximum and minimum values.
- RESET** Allows the maximum and minimum value to be reset at the actual pressure value.
- ZERO** Sets the zero to any value as a new zero reference. Barometric pressure variations can thus be compensated.
The factory setting of the zero for the ranges ≤ 31 bar is at 0 bar absolute. For sealed gauge pressure measurements, activate "ZERO SET" at ambient pressure. Instruments with ranges > 31 bar are calibrated in a sealed gauge mode with ambient pressure as a zero reference.
- CONT:** CONT (continuous) deactivates the automatic turn-off. In normal operation (cont. not activated) the dV-2 turns off 15 minutes after the last key function.
- UNITS** All standard instruments are calibrated in bar. The pressure can be indicated in the following units: bar, mbar, kPa, MPa, PSI. Other units on demand.

The battery symbol illuminates when battery power is low.

The dV-2 is also available as an OEM module.



dV-2



OEM Module



Display Segments dV-2



SPECIFICATIONS

Pressure Ranges absolute	0...4 bar	0...31 bar	0...200 bar	0...700 bar
" relative	-1...3 bar	-1...30 bar		
Display-Resolution	1 mbar	10 mbar	100 mbar	100 mbar
Overpressure	1,5 x pressure range			
Accuracy *	Version Standard 0,5 %FS / Version Silver 0,2 %FS / Version Gold 0,1 %FS / optional: other accuracies			
Compensated Temperature Range	10...40 °C			
Storage- / Operating Temperature	-10...60 °C / 0...50 °C			
Display-/Measuring Interval	2 x per second			
Supply	3 V battery, type CR 2032			
Battery Life	≈ 2 months at continuous operation			
Pressure Connection	G 1/4" or cutting ring/clamping ring, Ø 6 mm (only up to 600 bar). Optional: other connections.			
Protection	IP 64			
Width x Height x Depth	68 x 70 x 35 mm			
Weight	≈ 90 g (with rubber protection ≈ 126 g)			
Optional Accessories	- Protective rubber covering - Front display with customer logo			

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