**da Vinci Line**

The dV-1 line is based on an ASIC, one time programmable for Zero and Gain, for the activation- and deactivation-levels of the instruments and for the levels in the Switch version. These devices are designed for very low cost.

The dV-2 line is based on the μP-circuit, proven for more than 3 years in the KELLER Series 30 X transmitters. This line is profiting from all the programs for adjustment, compensation and for special functions which KELLER developed over the last 20 years; the dV-2 C for coolant applications represents this group of devices with additional functions.

**dV-1**

- **Ranges**: bar: 2, 10, 20, 100, 200, PSI: 100, 200, 1000
- **Resolution**: 200 points (0.5 % FS)
- **Versions**: Absolute / Gauge
- **Medium Contact**: Stainless steel, welded or with O-ring seals
- **Housing**: Panel mount, protective rubber or plastic housing
- **Pressure Contact**: Tube, pressure coupling or thread
- **Battery Life**: 9 months @ continuous operation
  2 years @ medium use (8 hours/day)
- **Activation/Deactivation**: Mechanical switch or automatically at defined levels

1. dV-1 in plastic housing with battery compartment
   Dimensions: 49 x 33 mm
2. Base element for panel mount external excitation or fixed battery (3 V)
   Width: 33 mm
3. Base element with rubber protection and fixed battery
   Dimensions: 55 x 20 mm
**New Manometer Generation**

**dV-2**

μP-based

**Class Standard:** 0,5 % FS  
**Class Silver:** 0,2 % FS  
**Class Gold:** 0,1 % FS

**Standard Ranges**
- **abs.** 0…4 bar  
- **gauge** -1…3 bar

**Resolution**
- 0.1 mbar  
- 1 mbar

**Temperature Range**
10…40°C

**Versions**
- Absolute / Gauge

**Medium Contact**
- Stainless steel; O-ring

**Battery Life**
2 months @ continuous operation

**Standard Functions**
- Max.-value, Min.-value, Zero,
- 5 units (bar / mbar / kPa / MPa / PSI)

* Adjustment for intermediate ranges (no substantial gain in accuracy) and 1000 bar range on request

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**dV-2 Gold-Edition; plastic housing**

Dimensions: 67 x 47 mm

**dV-2; aluminum housing**

Dimensions: 51 x 29 mm

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**dV-2 C**

for coolant applications

**Manometer for filling stations of refrigeration systems.**

The temperature/pressure curves of 5 cooling fluids are deposited in the program and the curve for the coolant in use can be selected with a few key strokes. Unit can be selected between bar / °C and PSI / °F.

Display shows either pressure or temperature. Activating Select shows for 5 seconds the value of the other measurand. Activating Select and Enter changes the dominating measurand.

**Ranges**
- -1…40 / -1…80 bar sealed gauge

**Resolution**
- 1 mbar
- 2 mbar
  (for Leak detection in vacuum)

**dV-2 C**

plastic housing / rubber protection

Dimensions: 67 x 47 mm

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www.kelleramerica.com
**dV-1 PS**  
**Pressure Switch**  
Ranges and specifications as dV-1; factory-set levels and mode.

- **Excitation**: 8…28 V  
- **Response Time**: max. 0,5 sec  
- **Switch**: PhotoMOS-Relais 40 V / 0,4 A

![dV-1 PS in metal housing](image1)

**dV-2 PS**  
**Pressure Switch**  
Ranges and specifications as dV-2; contains all functions of a programmable pressure switch, such as display of levels set, changing levels, selecting modes (normal or window / normally closed or open).

- **Excitation**: 8…28 V  
- **Response Time**: 30 msec  
- **Switch**: PhotoMOS-Relais 40 V / 0,4 A (2 outputs)

![dV-2 PS in plastic housing](image2)

**PA-22 PS**  
**Pressure Switch**  
Programmable pressure switch. Contains analog amplifier and µP with 10 bit A/D converter, to read analog signal and compare signal with set levels stored in µP. With the programming unit dV-22 PP hooked between the switch and the power, the actual pressure and the levels can be recalled. Levels, modes and units are changeable. With a K-107 cable between the dV-22 PP and a PC, the programming can be realised via PC.

- **Ranges**: 1 bar…400 bar  
- **Excitation**: 8…28 V  
- **Output**: 0,5…4,5 V  
- **Switch**: 2 outputs (NPN or PNP) / 0,5 A  
- **Error Band**: 0…80 °C: 2 %  
- **Response Time**: 10 msec  
- **Plug**: M12, 5 pole

![PA-22 PS](image3)  
![dV-22 PP](image4)  
![Converter K107](image5)