The EV-120 is a digital pressure indicator, designed for use in conjunction with a KELLER Series 30 transmitter. Together, these two instruments build a highly precise pressure measuring device. The EV-120 interrogates the Series 30 transmitter and updates the display two times every second. The display shows after turn-on the full-scale pressure range of the transmitter and then the actual pressure reading.

No manual adjustments are required; the EV-120 automatically configures itself to any Series 30 transmitter. Because the pressure is communicated and read in digital format, there are no signal conversion errors.

The Series 30 transmitters are based on a microprocessor (µP) circuit. The sensor signals are digitized, numerically compensated in the µP and again converted by the D/A converter into an analog norm signal (0…10V or 4…20 mA). The EV-120 reads out the compensated digital pressure value.

**EV-120 as a Manometer:** Equipped with an internal 9 V battery for both the supply of the instrument and the transmitter, the EV-120 builds together with the transmitter an autonomous digital pressure measuring device.

**EV-120 as a Local Pressure Indicator:** The EV-120 can be interposed between a transmitter and the transmitter supply, to use as a local pressure indicator. In this application, the EV-120 is powered from the transmitter supply and does not require the internal 9 V battery. The analog output signal of the transmitter and the serial interface are not influenced by the EV-120.*

With the KELLER Series 39 differential pressure transmitter, the differential pressure is calculated from 2 absolute transmitters. Here, the EV-120 indicates on the upper display the line pressure, on the lower display the differential pressure.

The pressure unit can be switched between different units (see specifications).

### Specifications

- **Total accuracy of the displayed pressure:** See specifications of Keller’s Series 30 transmitters
- **Resolution of display:** Depending on range (max. 0.025% FS of basic range)
- **Overpressure:** See specifications Series 30
- **Selectable pressure units:** bar / mbar-hPa / Pa / kPa / MPa / PSI (independent of the connected transmitter)
- **Measuring cycle:** 2 measurements per second
- **Storage / Operating temperature:** -20…60 °C / 0…50 °C
- **Compensated temperature range:** See specifications Series 30
- **Supply of the EV-120 electronics:** Block battery 9 V (6LR61)
- **Battery life:** Depending on the connected transmitter; > 16 hrs
- **Connector:** Binder (5 pole)
- **Protection:** IP40
- **Diameter x Height x Depth:** 76 x 122 x 42 mm
- **Total weight:** 229 g

* The 4…20 mA output can have an offset of ± 0.25% FS.