

Long-term accuracy for high process reliability in life science applications

High-precision pressure gauges EM / EK / EP

Advantages in Aseptic Applications

High-precision monitoring of process pressure and reliable protection against contamination in the running process are critical in pharmaceutical and biotechnical applications.

The long-life technology of the EM, EK and MAN series pressure gauges considerably increases both measuring sensitivity and lifetime. The wear-free mechanical system ensures a measuring accuracy of up to \pm 0.25 % of the full scale over many years. The efficient hydro-mechanical damping provides reliable protection even with pronounced pressure shocks.

In addition, the diaphragm has a multiple protections for a long service life, including high material quality in both the sensor and diaphragm, controlled welding in our own factory by specialists and a recessed position to prevent damage.

The two-point adjustment of zero point and span, which makes re-calibration easily possible at any time, avoids early replacement and increases the durability significantly. The already attractive purchase price combined with a prolonged product life leads to a very favorable cost of ownership.

The long-lasting usability is ensured by features such as the robust construction, autoclavability, CIP / SIP resistance, surface roughness of Ra \leq 0,2 µm, temperature resistance up to 165°C (330 °F) with steam-stabilized membrane, all-round hygienic and easy-to-clean one-piece design, IP66 protection, and the very large and easy-to-read display.

Advantages over "Dry" Gauges

- No risk of contamination by diaphragm damage and resultingcontact of the medium with non-sterile components due to the use of a USP Class VI compliant actuation fill
- · Longer service life and significantly lower fracture risk, as thediaphragm is subject to significantly less mechanical stress
- · Improved precision through more direct pressure transmission

Typical Customer Applications

- Hygienic process pressure control in tanks and pipes ofpharmaceutical and biotechnological plants
- · Permanent and reproducible high-precision monitoring of critical sterile processes
- · For processes with high demands on components in contactwith the product and on the avoidance of diaphragm damage



Technical Specifications At-a-Glance

- High-precision pressure gauges, measuring accuracy up to ± 0.25 % of full scale value
- · Individually adaptable to each application through flexible configuration and optional equipment (e.g. actuation fill, diaphragm material, measuring range, temperature resistance, display damping...)
- Two-point adjustment of zero point and span at any time for easy re-calibration
- Pressure range -1...+40 bar (0...600 psig), measuring range selectable in PSI, BAR or Dual scale
- Hydro-mechanical damping of strong pressure surges
- Multiple diaphragm protection: superior material quality, controlled welding and recessed position
- Extremely robust one-piece design for easy cleaning and long-term process reliability

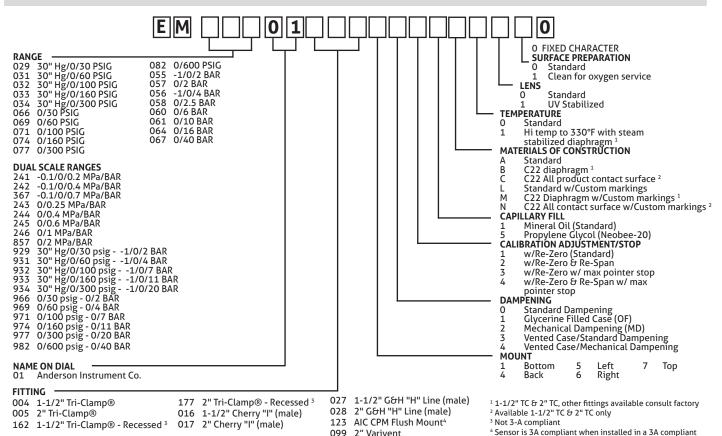






EM Pressure Gauge

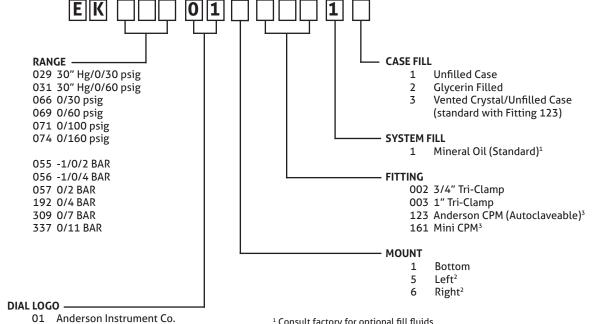
Order Information





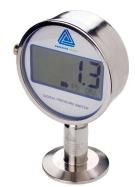


Order Information



- ¹ Consult factory for optional fill fluids
- ² Not available with glycerin filled case
- ³ Sensor is 3A compliant when installed in a 3A compliant instrument tee





EP Pressure Gauge

Order Information

