Standard pressure gauges

Y series / EYT series | Complete English user manual

1. Product overview

These standard pressure gauges use a brass threaded connection, a precision brass movement and a brass Bourdon tube. They measure the pressure of gases, liquids and other media compatible with the copper-alloy components, for industrial and general applications including machinery, energy, petroleum and chemical equipment.

2. Product features

Durability: A wide Bourdon-tube design supports stable operation and long service life.
Precision movement: The mechanical transmission drives the pointer to indicate pressure.
Factory checks: The source describes leak, overpressure and fatigue testing before shipment.
Media compatibility: Use gases or liquids that do not corrode the copper-alloy wetted components.

3. Family technical specifications

Parameter	Specification
Pressure ranges	Vacuum: −0.1 to 0MPa. Positive-pressure full-scale choices: 0.10, 0.16, 0.25, 0.4, 0.6, 1.0, 1.6, 2.5, 4.0, 6.0, 10, 16, 25, 40 and 60MPa. Select the range marked on the gauge.
Recommended steady pressure	Between 1/3 and 2/3 of full scale
Recommended fluctuating pressure	Between 1/3 and 1/2 of full scale
Accuracy classes	1.6 or 2.5; see the dial marking
Connection choices	M10×1, M14×1.5, M20×1.5; G, PT or NPT in 1/8in, 1/4in or 1/2in, and other configurations
Relative humidity	≤80%RH
Medium temperature	−20°C to 80°C
Ambient temperature	−20°C to 60°C
Scale units	MPa, psi, bar and kgf/cm²
Nominal dial diameters	40, 50, 60, 100 and 150mm

These are shared Y/EYT family specifications. Available combinations depend on the model and order configuration; use the markings and rating of the supplied gauge. The source writes the pressure ranges as a compressed slash-separated list; this edition separates vacuum from positive-pressure full-scale selections.

Product design and specifications may change without prior notice.

Installation, operation and care

4. Installation

Before installation, verify that the gauge model, pressure range and connection match the pressure source. The pointer should be at zero before pressure is applied.

1. Choose the location. Align the axial or radial gauge connection perpendicular to the pipeline, as described by the source installation instructions.
2. Seal the connection. Align the threaded connection with the pipe port and tighten gradually using a wrench; avoid tilted engagement.
3. After tightening, gently tap the housing and check that the pointer returns to zero while the gauge is unpressurized. The gauge is then ready for service.

5. Reading and monitoring

Keep your eye at the same level as the pointer and view the dial perpendicularly to reduce parallax. Read the unit printed on the dial. For long-term use, record pressure periodically to monitor system stability.

6. Abnormal indications

If the pointer oscillates violently or remains displaced from zero when unpressurized, stop using the gauge and check for pressure pulsation or instrument failure.

7. Maintenance

Regularly inspect the housing, pointer and process connection. The manufacturer recommends professional calibration every 6–12 months.

8. Precautions

1. The source states that the gauge is calibrated before shipment and meets the technical requirements of GB/T 1226. Do not dismantle or modify it; contact the supplier if it fails.
2. Do not strike or drop the gauge, or apply excessive force to its housing, connection or window.
3. Do not exceed the pressure range or temperature limits; this can shorten service life or damage the gauge.
4. Severe vibration can cause inaccurate readings and shorten service life. Fit a suitable damping tube or use a vibration-resistant gauge when required.
5. Before pipeline dismantling, servicing or transport, remove the gauge under depressurized conditions and protect its housing and connection. Follow the installation instructions when refitting.

Source identification

ELECALL and its Chinese trademark holder and manufacturer: Yueqing ELECALL Electric Co., Ltd. Address: No. 246 Weishi Road, Yueqing Economic Development Zone, Zhejiang Province, China. Telephone: 4006-111-323. Chinese source: www.elecall.cn; English source: www.elecall.com. Document code: VI-EYT-250507-ZE. Original leaflet format: 148mm × 210mm. Source slogan: “ELECALL—making quality products.”

Operating notes

Pressure expressed in kgf/cm² uses kilogram-force per square centimetre. Check zero only with the gauge unpressurized. Apply the environment ratings of the exact model where they differ from the family specification.