Budenberg
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Standard Test Gauge 0.25% Accuracy

Our 0.25% accuracy Standard Test Gauge is undoubtedly recognised as a world leader for its accuracy and of course, Budenberg quality.

This gauge incorporates a base test gauge accuracy with up to a maximum of 500 graduations where possible, along with a knife-edged pointer and an anti-parrallax mirror to help reduce chance of human error. The Standard Test Gauge is an obvious choice where accuracy is paramount.

The Standard Test Gauge meets the full requirements of EN837 and all units are supplied with a detailed calibration certificate which is traceable to National Standards. The gauge is also dust and splash proof to IP54 standards.

Recalibration is simplified with the inclusion of a micrometer adjustable pointer as standard.

Sizes and Mounting

The Standard Test Gauge is available in 150mm (6"), 200mm (8") and 250mm (10") dial sizes.

Direct / Surface mounting is standard with a bottom connection. Flush mounting is also available in both clamp or 3-hole fixing with a rear connection.

Case and Bezel

The case is made up of LM6M Aluminium casting to BS1490 utilising a full safety patter baffle wall with a blow out backing. Finish to BS381C.

The bezel for our direct and surface mounting type is polished 316L Stainless Steel.

The flush mounting front flange is aluminium finished instrument black.

Connections

1/2" BSP or 1/2" NPT on direct / surface mounting and 3/8" BSP or 1/4" NPT on flush panel mounting.

Other connection sizes are available on request.

Certification

We supply with every Standard Test Gauge a point-by-point calibration test certificate, a typical certificate is available on request.

All units are manufactured to comply with EN837-1 to S1 specification and other regulatory standards including P.E.D.

Professional, purpose built carrying cases are available for this gauge.

Accuracy

0.25% of Full Scale Deflection as defined in EN837-1.

Scale Ranges.

0 to 600 mBar up to 0 to 1,600 Bar pressure.
(0 to 10 lb/in² up to 0 to 25,000 lb/in²)
Equivalent units of pressure / vacuum are available.
We can provide dual scales or custom units upon request.

Overload

Units will withstand the following overload pressure conditions for a short period :

Max Scale Value	Over Pressure to be Applied
≤ 80 Bar	130% of Maximum Scale Value
≥ 81 Bar	115% of Maximum Scale Value

Pressure Medium

If a gauge is calibrated on air and subsequently used on liquid, the weight of the liquid in the tube will weigh down the end of the tube and can cause an accuracy error. This effect is significant with graduations up to and including 16 Bar (250 lb/in²) and so we must be advised on any order whether the gauges are to be used on liquid or air; the dials **of the gauge will be marked accordingly.**

Gauges with vacuum scale or with compound scale (pressure and vacuum) are calibrated on air. Gauges with graduations above 16 Bar (250 lb/in²) are usually calibrated on oil. Gauges graduated above 16 bar and not exceeding 40 Bar (250 and 600 lb/in²) can be tested on air at customers' request.

Oil Free

Oil free test gauges are available whereby the tubes **and blocks are vapour de-greased before assembly and strict precautions taken to see that no oil enters the tube during manufacture. The dial is then** marked "Use No Oil".