

EP-G25k-D

Very Low Pressure Deadweight Tester

Pneumatic pressure calibrator EP-G25k-D is intended for high-precision pressure generation.



On customer request an additional set of weights in measurement units different from the main set (kgs/m², bar, mm H₂O and etc.) could be delivered.

Main Technical Characteristics:

- Pressure generation range: 0.02 – 25 kPa (gauge pressure)
0.2 – 250 mbar (gauge pressure)
0.005 – 25 kPa (differential pressure)
- Static pressure: 3 mbar (0.3 kPa)
- Accuracy: up to $\pm 0.015\%$ of reading
- Stabilization of measured values below 10 sec.

Reference conditions for accuracy specifications:

- ambient temperature: 20 ± 1 °C;
- atmosphere pressure: 101.325 ± 3 kPa
- relative air humidity: $50 \pm 20\%$.

By DAkkS accredited laboratory according to DIN EN ISO / IEC 17025: 2018. The accreditation is valid only for the quantities listed in the accreditation scope. (Our Laboratory number is D-K-15055-01-00).

Limits of calibrator uncertainty under above mentioned conditions

Pressure generation range kPa	Accuracy 0.015% rdg	Accuracy 0.02% rdg
$0.005 \leq P_n < 0.4$	± 0.10 Pa	± 0.12 Pa
$0.4 \leq P_n < 2$	± 0.025 %	± 0.03 %
$2 \leq P_n \leq 25$	± 0.015 %	± 0.02 %

Note:

If generated pressure is less than 0.4 kPa, the fixed error is specified.

Calibrator is powered by compressed air or nitrogen:

- External pressure supply: 3 – 4 bar
- Settings of internal pressure: 1.5 bar \pm 75.0 mbar
- Pressure supply with clean and dry air: Purity class 1 – 2 – 1 (ISO 8573-1)

Overall dimensions (length x width x height):

- Calibrator (regardless to stowing): 390 x 310 x 240 mm
- Storage box for pistons, accessories and weights separately: 390 x 310 x 147 mm

Weight:

- Calibrator: 13.5 kg;
- Separate storing box: 5.3 kg.

