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Calibration Experts

# RPM4 BA100K
# Reference Pressure Barometer


- **Laboratory monitor with high accuracy**
- **Excellent long term stability**
- **Uncertainty of measurement up to ±0.008 % of rdg.**
- **Barometric pressure range 700 – 1100 mbar abs.**

*By DAkkS according to DIN EN ISO / IEC 17025: 2005 accredited laboratory. The accreditation is valid only for the certificate system D-K-15055-01-00 listed accreditation scope.*

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# Technical specifications

| | RPM4 BA100K (single-channel) |
|---|---|
| **Pressure range:** | 700 to 1100 mbar abs |
| **Power supply:** | 85 to 264 VAC, 50/60 Hz and 12 VDC, 1.2A |
| **Operating temperature:** | 15 to 35 °C |
| **Pressure connectors:** | 1/8“ NPT female |
| **Interface:** | S232 (COM1, COM2), IEEE-488.2 |
| **Dimensions (w x d x h):** | 227 mm x 100 mm x 240 mm |
| **weight:** | 5 Kg |

# Measurement specifications

| | RPM4 BA100K (single-channel) | RPM4 BA100K/BA100K (dual-channel) |
|---|---|---|
| **Resolution:** | 1ppm | 1ppm |
| **Measurement uncertainty[1)]:** | ±0.01 % of rdg | ±0.008 % of rdg |
| **Precission[2)]:** | ±0.008 % of rdg | ±0.006 % of rdg |
| **Predicted Stability[3)]:** | ±0.005 % of rdg | ±0.0032 % of rdg |

1) Maximum deviation of Q-RPT value from real Value of the applied pressure in consideration of accuracy, predictable annual rigidity, temperature effects and calibration accuracy according to the ISO „policy of declaration for measurement uncertainty with *k*=2“.
2) Combined linearity, hysteresis und repeatability.
3) Predictable stability (*k*=2) of the sensor over one year, provided to continuous use of the Auto-Zero function. Without AutoZero function for single-channel: ±(5.5 Pa + 0.005 % of rdg.), for dual-channel: ±(3.9 Pa + 0.0032 % of rdg.)

# Description

The RPM4 BA100K is the laboratory monitor for measuring atmospheric pressure with high accuracy and repeatability.

The specifications as described above will be achieved by use of the quartz reference pressure transducer (Q-RPT) modules.

With optional battery pack the RPM4 is ready for portable use. The RPM4 BA100K is qualified as a more significant ambient pressure reference for DHI PG7000 and other piston gauges.

The two 1100 mbar sensors of the RPM4 BA100K/BA100K provide a better measurement accuracy and uncertainty than meters with only one sensor.

The second line of the display shows other important informations that help you to observe the current measurement.


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