

RPM4 BA100K™

Reference Pressure Barometer



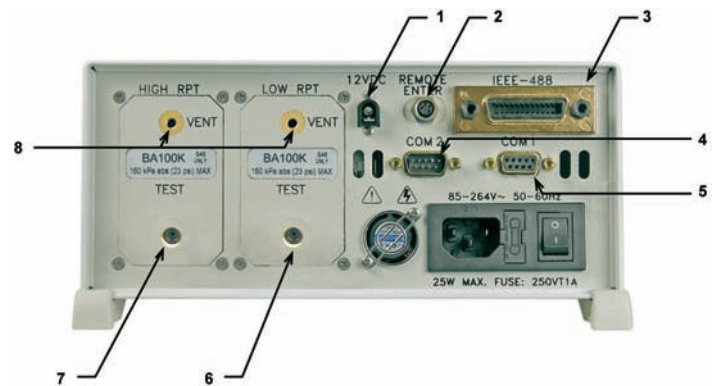
The RPM4 BA100K is a full function laboratory quality barometer intended to measure atmospheric pressure with the very highest performance. Its outstanding pressure measurement specifications are made possible by DHI's exclusive quartz reference pressure transducer (Q-RPT) modules.

FEATURES

- Transfer standard level measurement uncertainty, $\pm 0.01\%$ of reading ($\pm 0.008\%$ for dual channel mode)
- Single channel or dual channel with parallel measurement mode to reduce uncertainty and increase reliability
- Large, easy to read display
- RS232 and IEEE-488 interfaces included
- On-board functions including adjustable average time, high/low, deviation from set point, rate, freeze
- A2LA accredited calibration included at no extra cost, internationally recognized through ILAC, APLAC, EA and IAAC

- Ideal for absolute pressure AutoZeroing of pressure transfer standards and molbox flow terminals
- Compact and rugged presentation
- Optional battery pack
- 1 week delivery from factory

RPM4 BA100K™ REAR PANEL



1. 12VDC battery connection
2. Remote [ENT] connector
3. IEEE-488 remote communications
4. COM2 pass through communications
5. COM1 remote communications
6. TEST, channel 1 Q-RPT
7. TEST, channel 2 Q-RPT (optional)
8. VENT port, SDS vent

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Reference Pressure Barometer

GENERAL SPECIFICATIONS

Range:	70 to 110 kPa (10 to 16 psia)
Power requirements:	85 to 264 VAC, 50/60 Hz; 12VDC, 1.2 A (battery)
Operating temperature:	15 to 35 °C
Weight:	5 kg (11 lb)
Dimensions:	10 cm H x 22.7 cm W x 24 cm D (3.9 in. x 8.9 in. x 9.5 in.)
Test port connections:	1/8 in. NPT F
Communications ports:	RS232 (COM1, COM2), IEEE-488.2

MEASUREMENT SPECIFICATIONS

RPM4 BA100K (Single Channel)		RPM4 BA100K/BA100K (Dual Channel)	
Resolution:	To 1 ppm, user adjustable	Resolution:	To 1 ppm, user adjustable
Warm Up Time:	30 minute temperature stabilization recommended from cold power up	Warm Up Time:	30 minute temperature stabilization recommended from cold power up
Normal Operating Temperature Range:	15 to 35 °C	Normal Operating Temperature Range:	15 to 35 °C
Vibration:	Meets MIL-T-28800D	Acceleration Affect:	Meets MIL-T-28800D
Predicted Stability¹:	±0.005% of reading	Predicted Stability¹:	±0.0032% of reading
Precision²:	±0.008% of reading	Precision²:	±0.006% of reading
Measurement Uncertainty³:	±0.01% of reading	Measurement Uncertainty³:	±0.008% of reading

1. Predicted Q-RPT measurement stability limit (k=2) over one year assuming regular use of AutoZero function. AutoZero is performed by the operator by comparison with a barometric reference in absolute mode. Absolute mode predicted one year stability without AutoZ is: Single Channel ± (5 Pa + 0.005 % of reading), Dual Channel ± (4 Pa + 0.0032 % of reading).
2. Combined linearity, hysteresis, repeatability.

3. Maximum deviation of the Q-RPT indication from the true value of applied pressure including precision, predicted one year stability limit, temperature effect and calibration uncertainty, combined and expanded (k=2) following the ISO "Guide to the Expression of Uncertainty in Measurement."

ORDERING INFORMATION

Model: RPM4 BA100K and RPM4 BA100K/BA100K

ACCESSORIES

Designation	Part No.	Description	Designation	Part No.	Description
Rack mount kit	3071051	Rack mount kit for standard 19 in. rack	VA-MPC-REF, 110V	3069495	Vacuum pump (110V) and connection for MPC1
Footswitch	3070940	Remote [ENTER] footswitch	VA-MPC-REF, 220V	3069597	Vacuum pump (220V) and connection for MPC1
Battery	3071049	Battery and charger pack	COMPASS for Pressure	3071106	Calibration assistance software
Case	3071386	Molded transit case for RPM4 and battery pack			
MPC1-1000	3069536	Single channel manual pressure controller			
MPC1-D-1000	3070232	Dual channel manual pressure controller			

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Due to a policy of continual product improvement, all product specifications, descriptions and features are subject to change without notice.

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