

Model Number RHM240M40	UNIAXIAL ICP® STRAIN SENSOR W/ INTEGRAL CABLE	Revision: NR ECN #: 43050
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	<u>ENGLISH</u>	<u>SI</u>	
Performance			
Sensitivity(± 20 %)	10 mV/με	10 mV/με	
Measurement Range	300 pk με	300 pk με	[2]
Frequency Range(-5 %)	.004 Hz	.004 Hz	[3]
Broadband Resolution(1 to 10,000 Hz)	.001 nε	.001 nε	[1]
Non-Linearity	≤ 2 %	≤ 2 %	[4]
Environmental			
Temperature Range(Operating)	-65 to +250 °F	-54 to +121 °C	[1]
Electrical			
Excitation Voltage	20 to 30 VDC	20 to 30 VDC	
Constant Current Excitation	2 to 20 mA	2 to 20 mA	
Output Bias Voltage	8 to 14 VDC	8 to 14 VDC	
Discharge Time Constant	≥ 150 sec	≥ 150 sec	
Electrical Isolation	≥ 10 ⁸ Ohm	≥ 10 ⁸ Ohm	
Physical			
Sensing Element	Quartz	Quartz	
Housing Material	Stainless Steel	Stainless Steel	
Sealing	Epoxy	Epoxy	
Size (Width x Length x Height)	.67 in x 1.725 in x .60 in	17 mm x 43.8 mm x 15 mm	[1]
Weight(without cable)	2.0 oz	58 gm	
Electrical Connector	Integral Cable	Integral Cable	
Electrical Connection Position	Side	Side	
Mounting	Through Hole	Through Hole	
Mounting Torque	7.38 ft-lb	10 Nm	

OPTIONAL VERSIONS

Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.

NOTES:

[1] Typical.
 [2] Based on 10 mV/με sensitivity.
 [3] Calculated from discharge time constant.
 [4] Zero-based, least-squares, straight line method.
 [5] See PCB Declaration of Conformance PS023 for details.

SUPPLIED ACCESSORIES:
 Model M081A100 M6 x 1.00 flathead screw (1)

Entered: AP	Engineer: GD	Sales: KWW	Approved: BAM	Spec Number:
Date: 7/22/2014	Date: 7/22/2014	Date: 7/22/2014	Date: 7/22/2014	58626



All specifications are at room temperature unless otherwise specified.
 In the interest of constant product improvement, we reserve the right to change specifications without notice.
 ICP® is a registered trademark of PCB Group, Inc.
 This model, designated with an RH prefix, is RoHS compliant. For further details, and to obtain PCB's RoHS Statement of Conformance, please visit <http://www.pcb.com>



Phone: 716-684-0001
Fax: 716-684-0987
E-Mail: info@pcb.com