| Model Number<br>RH240A03             |                 | UNI                 | IAXIAL ICP <sup>®</sup> ST | RAIN |
|--------------------------------------|-----------------|---------------------|----------------------------|------|
| Performance                          |                 | ENGLISH             | SI                         |      |
| Sensitivity (±20 %)                  |                 | 10 mV/με            | 10 mV/με                   |      |
| Measurement Range                    |                 | 300 pk με           | 300 pk με                  | [2]  |
| Frequency Range (-5 %)               |                 | 0.004 Hz            | 0.004 Hz                   | [3]  |
| Broadband Resolution (1 to 10000 Hz) |                 | 0.001 με            | 0.001 με                   | [1]  |
| Non-Linearity                        |                 | ≤2 %                | ≤2 %                       | [4]  |
| Environmental                        |                 |                     |                            |      |
| Temperature Ran                      | ige (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                   |      |
| Physical                             |                 |                     |                            |      |
| Sensing Element                      |                 | Quartz              | Quartz                     |      |
| Housing Material                     |                 | Stainless Steel     | Stainless Steel            |      |
| Electrical Connector                 |                 | 10-32 Coaxial Jack  |                            |      |
| Electrical Connection Position       |                 | Side                | Side                       |      |
| Sealing                              |                 | Epoxy               | Epoxy                      |      |
| Mounting Torque                      |                 | 7.38 ft-lb          | 10 Nm                      |      |
| Size (Width x Length x Height)       |                 | 0.67 in x 1.81 in x |                            |      |
| 107 1 17                             |                 | 0.6 in              | 15.2 mm                    |      |
| Weight                               |                 | 1.6 oz              | 45 gm                      | [1]  |
|                                      |                 |                     |                            |      |

Optional Versions (Optional versions have identical specifications and accessories as listed for standard model except where noted below. More than one option maybe used.)

Revision NR

J - Ground Isolated

M - Metric Mount

**SENSOR** 

Supplied Accessory: Model M081A100 M6 x 1.00 flathead screw

W - Water Resistant Cable

## 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**

081A100 1/4 -28 flathead hex screw (1)



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.

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This model, designated with an RH prefix, is RoHS compliant. For further details, and to obtain PCB's RoHS Statement of Conformance, please visit www.pcb.com.

| Entered: BLS | Engineer: DPC | Sales: MJK | Approved: BLS | Spec Number: |
|--------------|---------------|------------|---------------|--------------|
| Date:        | Date:         | Date:      | Date:         | 36903        |
| 03/14/2007   | 03/16/2007    | 03/14/2007 | 03/16/2007    |              |



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