

| Model Number<br>134A23                                                                                                                                                                                                                               |                  | PRESSURE SENSOR, ICP®                                                                                                                                                                                                                                     |                    | Revision: J<br>ECN #: 55416                                                                                                                                                                                                                   |  |             |               |           |               |              |                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------|---------------|-----------|---------------|--------------|------------------|
| <b>Performance</b>                                                                                                                                                                                                                                   |                  | <b>ENGLISH</b>                                                                                                                                                                                                                                            | <b>SI</b>          | <b>OPTIONAL VERSIONS</b>                                                                                                                                                                                                                      |  |             |               |           |               |              |                  |
| Measurement Range(for ±5V output)                                                                                                                                                                                                                    |                  | 10,000 psi                                                                                                                                                                                                                                                | 68,950 kPa         | Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.<br><br><b>M</b> - Metric Mount                                                   |  |             |               |           |               |              |                  |
| Sensitivity(± 20 %)                                                                                                                                                                                                                                  |                  | 0.5 mV/psi                                                                                                                                                                                                                                                | 0.073 mV/kPa       |                                                                                                                                                                                                                                               |  | [1]         |               |           |               |              |                  |
| Maximum Pressure                                                                                                                                                                                                                                     |                  | 15,000 psi                                                                                                                                                                                                                                                | 103,425 kPa        |                                                                                                                                                                                                                                               |  |             |               |           |               |              |                  |
| Resolution                                                                                                                                                                                                                                           |                  | 0.2 psi                                                                                                                                                                                                                                                   | 1.4 kPa            |                                                                                                                                                                                                                                               |  | [2]         |               |           |               |              |                  |
| Resonant Frequency                                                                                                                                                                                                                                   |                  | ≥ 1,500 kHz                                                                                                                                                                                                                                               | ≥ 1,500 kHz        |                                                                                                                                                                                                                                               |  |             |               |           |               |              |                  |
| Rise Time(Reflected)                                                                                                                                                                                                                                 |                  | ≤ 0.2 μ sec                                                                                                                                                                                                                                               | ≤ 0.2 μ sec        |                                                                                                                                                                                                                                               |  |             |               |           |               |              |                  |
| Low Frequency Response(- 5 %)                                                                                                                                                                                                                        |                  | 0.5 Hz                                                                                                                                                                                                                                                    | 0.5 Hz             |                                                                                                                                                                                                                                               |  |             |               |           |               |              |                  |
| Non-Linearity                                                                                                                                                                                                                                        |                  | ≤ 2 % FS                                                                                                                                                                                                                                                  | ≤ 2 % FS           |                                                                                                                                                                                                                                               |  | [3]         |               |           |               |              |                  |
| <b>Environmental</b>                                                                                                                                                                                                                                 |                  |                                                                                                                                                                                                                                                           |                    |                                                                                                                                                                                                                                               |  |             |               |           |               |              |                  |
| Temperature Range(Operating)                                                                                                                                                                                                                         |                  | +32 to +120 °F                                                                                                                                                                                                                                            | 0 to +49 °C        |                                                                                                                                                                                                                                               |  |             |               |           |               |              |                  |
| Maximum Flash Temperature                                                                                                                                                                                                                            |                  | 5,000 °F                                                                                                                                                                                                                                                  | 2,760 °C           |                                                                                                                                                                                                                                               |  |             |               |           |               |              |                  |
| <b>Electrical</b>                                                                                                                                                                                                                                    |                  |                                                                                                                                                                                                                                                           |                    | <b>NOTES:</b><br>[1]Calibrated as a system using (3 inch) type 003 cable and 402A series in-line amplifier.<br>[2]Typical.<br>[3]Zero-based, least-squares, straight line method.<br>[4]See PCB Declaration of Conformance PS023 for details. |  |             |               |           |               |              |                  |
| Output Polarity(Positive Pressure)                                                                                                                                                                                                                   |                  | Positive                                                                                                                                                                                                                                                  | Positive           |                                                                                                                                                                                                                                               |  |             |               |           |               |              |                  |
| Discharge Time Constant(at room temp)                                                                                                                                                                                                                |                  | ≥ 1 sec                                                                                                                                                                                                                                                   | ≥ 1 sec            |                                                                                                                                                                                                                                               |  |             |               |           |               |              |                  |
| Excitation Voltage                                                                                                                                                                                                                                   |                  | 20 to 30 VDC                                                                                                                                                                                                                                              | 20 to 30 VDC       |                                                                                                                                                                                                                                               |  |             |               |           |               |              |                  |
| Constant Current Excitation                                                                                                                                                                                                                          |                  | 2 to 20 mA                                                                                                                                                                                                                                                | 2 to 20 mA         |                                                                                                                                                                                                                                               |  |             |               |           |               |              |                  |
| Output Impedance                                                                                                                                                                                                                                     |                  | ≤ 100 Ohm                                                                                                                                                                                                                                                 | ≤ 100 Ohm          |                                                                                                                                                                                                                                               |  |             |               |           |               |              |                  |
| Output Bias Voltage                                                                                                                                                                                                                                  |                  | 8 to 14 VDC                                                                                                                                                                                                                                               | 8 to 14 VDC        |                                                                                                                                                                                                                                               |  |             |               |           |               |              |                  |
| <b>Physical</b>                                                                                                                                                                                                                                      |                  |                                                                                                                                                                                                                                                           |                    |                                                                                                                                                                                                                                               |  |             |               |           |               |              |                  |
| Sensing Element                                                                                                                                                                                                                                      |                  | Tourmaline                                                                                                                                                                                                                                                | Tourmaline         |                                                                                                                                                                                                                                               |  |             |               |           |               |              |                  |
| Housing Material                                                                                                                                                                                                                                     |                  | Stainless Steel                                                                                                                                                                                                                                           | Stainless Steel    |                                                                                                                                                                                                                                               |  |             |               |           |               |              |                  |
| Diaphragm                                                                                                                                                                                                                                            |                  | Epoxy                                                                                                                                                                                                                                                     | Epoxy              |                                                                                                                                                                                                                                               |  |             |               |           |               |              |                  |
| Sealing                                                                                                                                                                                                                                              |                  | Epoxy                                                                                                                                                                                                                                                     | Epoxy              |                                                                                                                                                                                                                                               |  |             |               |           |               |              |                  |
| Electrical Connector                                                                                                                                                                                                                                 |                  | 10-32 Coaxial Jack                                                                                                                                                                                                                                        | 10-32 Coaxial Jack |                                                                                                                                                                                                                                               |  |             |               |           |               |              |                  |
| Weight                                                                                                                                                                                                                                               |                  | 1.4 oz                                                                                                                                                                                                                                                    | 39 gm              |                                                                                                                                                                                                                                               |  |             |               |           |               |              |                  |
|                                                                                                                                                                   |                  | <b>SUPPLIED ACCESSORIES:</b>                                                                                                                                                                                                                              |                    |                                                                                                                                                                                                                                               |  |             |               |           |               |              |                  |
|                                                                                                                                                                                                                                                      |                  | Model 061A30 Spanner Wrench, 2 Pin (1)                                                                                                                                                                                                                    |                    |                                                                                                                                                                                                                                               |  |             |               |           |               |              |                  |
|                                                                                                                                                                                                                                                      |                  | Model PCS-6AB Calibration of dynamic pressure sensors at 100% and 10% of sensor range.                                                                                                                                                                    |                    |                                                                                                                                                                                                                                               |  |             |               |           |               |              |                  |
|                                                                                                                                                                                                                                                      |                  | <table><tr><td>Entered: ND</td><td>Engineer: RPF</td><td>Sales: MV</td><td>Approved: RPF</td><td>Spec Number:</td></tr><tr><td>Date: 12/11/2024</td><td>Date: 12/11/2024</td><td>Date: 12/11/2024</td><td>Date: 12/11/2024</td><td>6615</td></tr></table> |                    |                                                                                                                                                                                                                                               |  | Entered: ND | Engineer: RPF | Sales: MV | Approved: RPF | Spec Number: | Date: 12/11/2024 |
| Entered: ND                                                                                                                                                                                                                                          | Engineer: RPF    | Sales: MV                                                                                                                                                                                                                                                 | Approved: RPF      | Spec Number:                                                                                                                                                                                                                                  |  |             |               |           |               |              |                  |
| Date: 12/11/2024                                                                                                                                                                                                                                     | Date: 12/11/2024 | Date: 12/11/2024                                                                                                                                                                                                                                          | Date: 12/11/2024   | 6615                                                                                                                                                                                                                                          |  |             |               |           |               |              |                  |
|                                                                                                                                                                 |                  | Phone: 716-684-0001                                                                                                                                                                                                                                       |                    |                                                                                                                                                                                                                                               |  |             |               |           |               |              |                  |
|                                                                                                                                                                                                                                                      |                  | Fax: 716-684-0987                                                                                                                                                                                                                                         |                    |                                                                                                                                                                                                                                               |  |             |               |           |               |              |                  |
|                                                                                                                                                                                                                                                      |                  | E-Mail: info@pcb.com                                                                                                                                                                                                                                      |                    |                                                                                                                                                                                                                                               |  |             |               |           |               |              |                  |
| 3425 Walden Avenue, Depew, NY 14043                                                                                                                                                                                                                  |                  |                                                                                                                                                                                                                                                           |                    |                                                                                                                                                                                                                                               |  |             |               |           |               |              |                  |
|                                                                                                                                                                                                                                                      |                  |                                                                                                                                                                                                                                                           |                    |                                                                                                                                                                                                                                               |  |             |               |           |               |              |                  |
| All specifications are at room temperature unless otherwise specified.<br>In the interest of constant product improvement, we reserve the right to change specifications without notice.<br>ICP® is a registered trademark of PCB Piezotronics, Inc. |                  |                                                                                                                                                                                                                                                           |                    |                                                                                                                                                                                                                                               |  |             |               |           |               |              |                  |
|                                                                                                                                                                                                                                                      |                  |                                                                                                                                                                                                                                                           |                    |                                                                                                                                                                                                                                               |  |             |               |           |               |              |                  |