



## SCIGATE AUTOMATION (S) PTE LTD

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## APPLICATIONS:

- Verification
- Calibration
- Quality Control
- Temperature Compensation Testing

## BENEFITS:

- Portability
- Data Tracking
- Internet Capable
- Compatible w/ Most Strain Gage Sensors
- Verification & Calibration Reports & Certificates
- Real Time Automatic Data Entry
- Data Backup & Archiving
- Re-Calibration Alert

## FEATURES:

- Database Data Storage/Tracking
- Reference Sensor Auto Recognition
- Ambient Temperature Sensor
- Automated or Manual Reference Calibration
- Third Order Linearization w/ Reference Sensor
- High Resolution Data Acquisition
- Supports ISO 9000-2000, ISO 17025, E74, E4, Z540 & Other Standards
- Built-In Conversion Calculators



## SPECIFICATIONS:

*Data Acquisition Unit*

- Accuracy: 0.01%
- Measuring Range:  $\pm 4.5$  mV/V
- Resolution:  $\pm 20$  Bits @ 1 Hz
- LP Filter Cutoff Frequency @ -3 db Standard Filter: 40, 18, 8, 4, 2, 1, 0.5, 0.25 Hz
- LP Filter Cutoff Frequency @ -3 db Fast Filter: 18, 11, 9, 7, 5, 4, 3.5, 3, 2.5 Hz
- Internal Conversion Rate: 600, 300, 150, 75, 37.5, 18.75, 9.38, 4.69 Hz
- Bridge Input Resistance: 175 Ohms MIN.
- Sensor Connection: 4 Wire
- Operating Temperature Range: 14 to 120 °F
- Storage Temperature: -40 to 185 °F

*Strain:*

- Input Resistance: >15 M Ohms
- Non Linearity: 0.004% of F.S.
- Temperature Span Shift: 0.0003% of F.S.
- Temperature Zero Shift: 0.0002% of F.S.

*Voltage Input:*

- Max Voltage:  $\pm 15$  VDC
- Input Resistance: 10.050 K Ohms
- Non Linearity: 0.06% of F.S.
- Temperature Span Shift: 0.01% of F.S.
- Temperature Zero Shift: 0.04% of F.S.

*Current Input:*

- Upper Current Limit: 22 mA Max
- Non Linearity: 0.04% of F.S.
- Temperature Span Shift: 0.01% of F.S.
- Temperature Zero Shift: 0.07% of F.S.

*Temperature Sensor:*

- Accuracy:  $\pm 0.9$  °F
- Nominal Temperature Range: 14 to 140 °F
- Storage Temperature Range: -40 to +185 °F

*Resistance*

- Accuracy:  $\pm 5$  Ohms
- Range: 100 to 2500 Ohms