

HP E1507A
**350 Ohm Strain Completion and Excitation SCP
Module**



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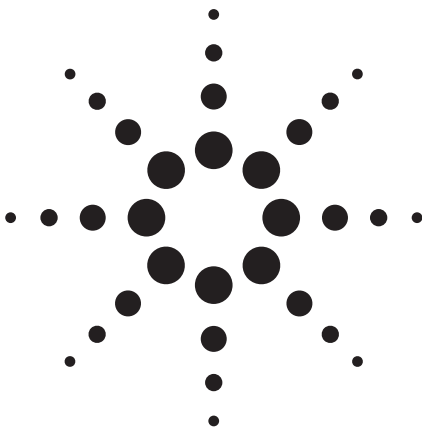
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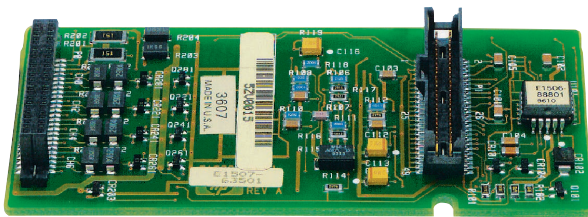


Agilent E1507A

350 Ω Strain Completion and Excitation SCP

Data Sheet

- Use with Agilent E1413C/E1415A/E1419A
- 350 Ω strain bridge completion and excitation
- Connections for quarter, half, and full bridge
- Requires an input SCP to make strain gage measurements



Agilent E1507A

Description

The Agilent E1507A 8-Channel 350 Ω Strain Completion & Excitation SCP provides strain completion and excitation voltages for 350 Ω bridges. Connections can be made for quarter-bridge, half-bridge, and full-bridge strain gage measurements.

Two SCPs are required to make strain gage measurements. The E1507A SCP provides the excitation signals and bridge connections and the other SCP, the sense SCP, makes the measurement connections (e.g., E1503A, E1508A, or E1509A).

Use the E1507A with the following VXI modules:

| Model | Description |
|--------|--|
| E1413C | 64-Channel Scanning A/D Converter |
| E1415A | Algorithmic Closed Loop Controller |
| E1419A | Multifunction Measurement and Control Module |

Refer to the Agilent Technologies Website for recent product updates, if applicable.



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Strain Measurements

With the E1507A you can make quarter-bridge, half-bridge, or full bridge strain gage measurements. In the quarter-bridge and half-bridge configuration, the E1507A supplies the strain completion circuitry. The E1507A supplies the bridge excitation voltage for all bridge configurations.

Product Specifications

The following graphs show the strain accuracy for various bridge configurations.

Excitation Voltage

Accuracy:
(90 day) 23 ± 1 °C with 3.9000 V nominal ± 512 µV
*CAL done after 1 hr warm-up. Measured with the E1501A. Direct Input SCP.

Tempco: 39 µV/°C

Noise (3σ):
A/D filter off: 450 µV
A/D filter on: 366 µV

Completion Resistors

Power: 0.125 W @ 125 °C
Tolerance: 0.05%
TCR: ± 5 ppm/°C

Offsets

Bridge offsets:
Quarter bridge: ± 1 °C of tare cal

Offset: ± 40 µV

System Strain Accuracies

Gain + offset error: 40 µε

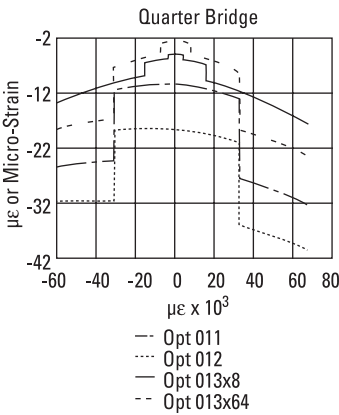
Noise error:
A/D filter off: 27 µε
A/D filter on: 20 µε

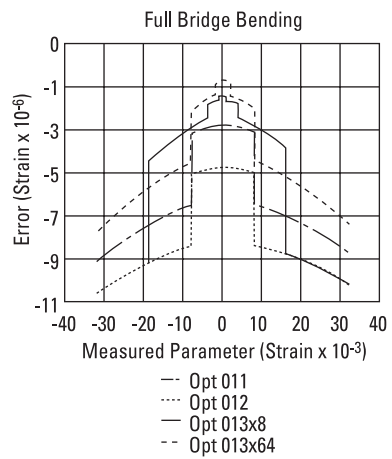
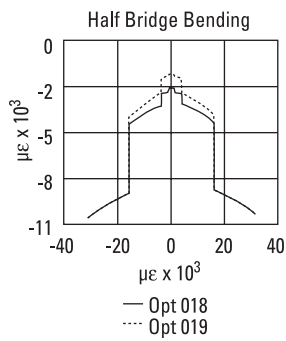
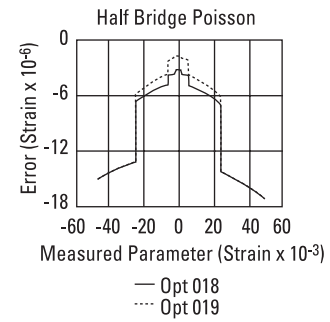
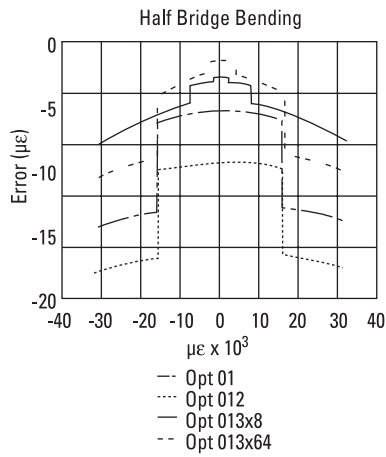
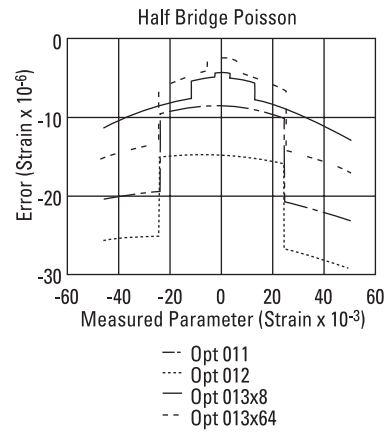
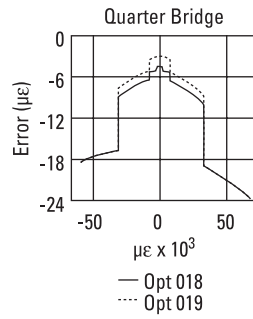
Strain Measurement Accuracy

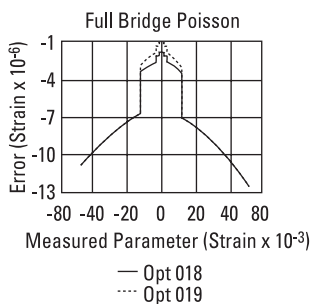
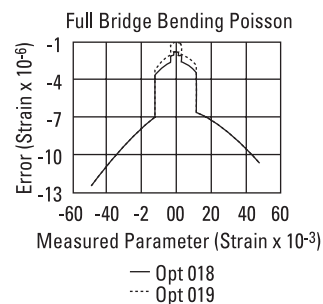
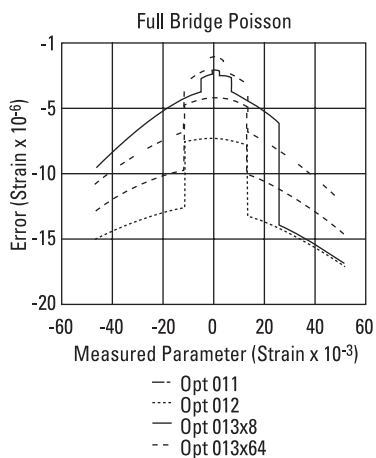
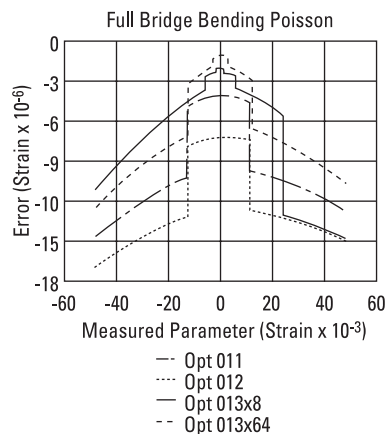
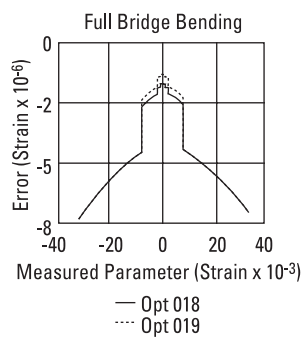
These specifications for the E1507A reflect the combined performance of the scanning A/D and the E1507A SCP.

Conversion Chart

| | | |
|---------|---|--------|
| Opt 011 | = | E1501A |
| Opt 012 | = | E1502A |
| Opt 013 | = | E1503A |
| Opt 015 | = | E1505A |
| Opt 016 | = | E1506A |
| Opt 017 | = | E1507A |
| Opt 018 | = | E1508A |
| Opt 019 | = | E1509A |
| Opt 020 | = | E1510A |
| Opt 021 | = | E1511A |







Current Requirements (Amps)

| 5 V typ | 5 V max | 24 V typ | 24 V max | -24 V typ | -24 V max |
|---------|---------|----------|----------|-----------|-----------|
| 0.09 | 0.09 | .026 | .032 | .023 | .027 |

Ordering Information

| Description | Product No. |
|--|-------------|
| 8-Channel 350 Ω Strain Completion & Excitation SCP | E1507A |

Related Literature

2000 Test System and VXI Catalog CD-ROM,
Agilent Pub. No. 5980-0308E (detailed specifications for VXI products)

2000 Test System and VXI Catalog,
Agilent Pub. No. 5980-0307E (overview of VXI products)

1998 Test System and VXI Products Data Book,
Agilent Pub. No. 5966-2812E

Online

Internet access for Agilent product information, services and support
www.agilent.com/find/tmdir

VXI product information
www.agilent.com/find/vxi

Defense Electronics Applications
www.agilent.com/find/defense_ATE

Agilent Technologies VXI Channel Partners
www.agilent.com/find/vxichanpart

Agilent Technologies' HP VEE Application Website
www.agilent.com/find/vee

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