

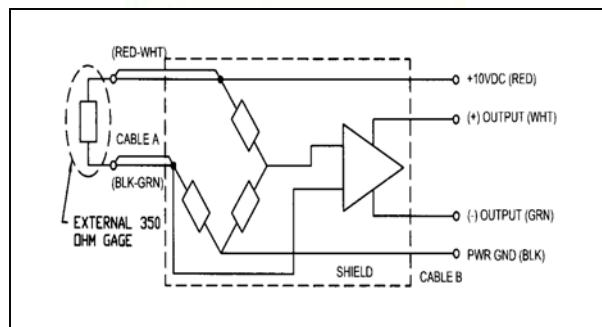
FEATURES

- Connects to Standard 350 Ohm Foil Gage
- +10VDC Excitation
- ±2.5V Differential Signal Output
- Miniature Size



The Columbia Model 5433 Instrumentation Grade Strain Gage Amplifier interfaces directly with any remote mounted single 350 ohm foil strain gage. The contained signal conditioning circuitry balances the remote gage in a wheatstone bridge configuration.

The unit incorporates a two-pole butterworth low pass filter stage coupled to a high performance low drift differential voltage amplifier. The system typically provides a ±2.5 volt true differential output signal for an equivalent 50,000 µε generated at the input by any commercially available foil type 350 ohms strain gage with a nominal gage factor of 2.0. The generated signal output can drive up to 500 feet of twisted shielded pair instrumentation cable.



Specifications

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|----------------------|---|
| No. of Channels | One |
| Power Required | +10 VDC Nominal |
| Output | ±2.5 Volts True Differential (Equivalent to 50,000 µε) |
| Input | Connects directly to any remotely mounted standard 350 ohms foil gage with a nominal gage factor of 2.0 |
| Frequency Response | ±5%, DC To 20KHz ±10%, To 30KHz -3dB @ Approx. 40KHz |
| Zero Offset | Less Than ±50 mV @ 25 Deg C |
| Temperature Response | 5% Max. |
| Thermal Zero Shift | Less Than ±100 mV from +25 Deg C reference offset |

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|-----------------------|--|
| Grounding | Case Isolated from Signal Ground |
| Warm Up Time | 2 Minutes Max. |
| Cables | Power Input/Signal Output 36" Lg Teflon Jacket Shielded 4 Conductors |
| | Signal Input / Remote Gage 36" Long Teflon Jacket Shielded 2 Conductors |
| Operating Temperature | -30 To +185 Deg F |
| Storage Temperature | -65 To +250 Deg F |
| Mounting | ¼-28 UNF Class 3 Stud |
| Size | 0.6" Hex x 0.4" High |
| Weight | Less Than 1.0 Oz. |

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