



HITEC PRODUCTS, INC.

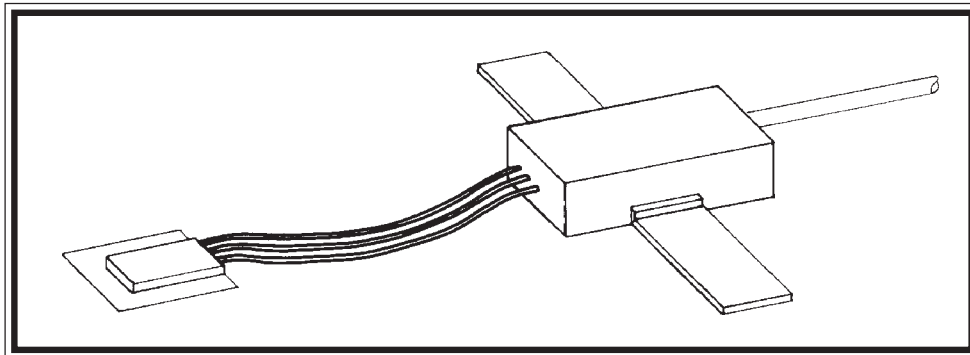
P.O. Box 790 • Ayer, MA 01432 USA
Tel: 978-772-6963 • Fax: 978-772-6966
www.hitecprod.com

WELDABLE STRAIN TRANSDUCER FOR FIELD MEASUREMENTS

Full Bridge - Unique Design

FEATURES:

- **SIMPLE!** Easy to install and use. Install with portable spot welder
- **NO PREVIOUS STRAIN GAGE EXPERIENCE NECESSARY**
- Four Arm Bridge for **OUTSTANDING STABILITY & TEMPERATURE COMPENSATION**
- **ELIMINATES LEAD WIRE ERRORS** - even with long cable lengths
- **DOUBLE OUTPUT** of a standard gage for **HIGH SENSITIVITY**
- **COMPLETELY PRE-WIRED & WATERPROOFED.** 100% Water Immersion Tested
- **INSTALL IN INCLEMENT WEATHER** - Wind, Rain or Snow
- Units available to **CONFORM TO A FLAT SURFACE OR ANY RADIUS**
- Units made **SPECIFICALLY FOR INSTALLATION ON RE-BAR** available



APPLICATIONS:

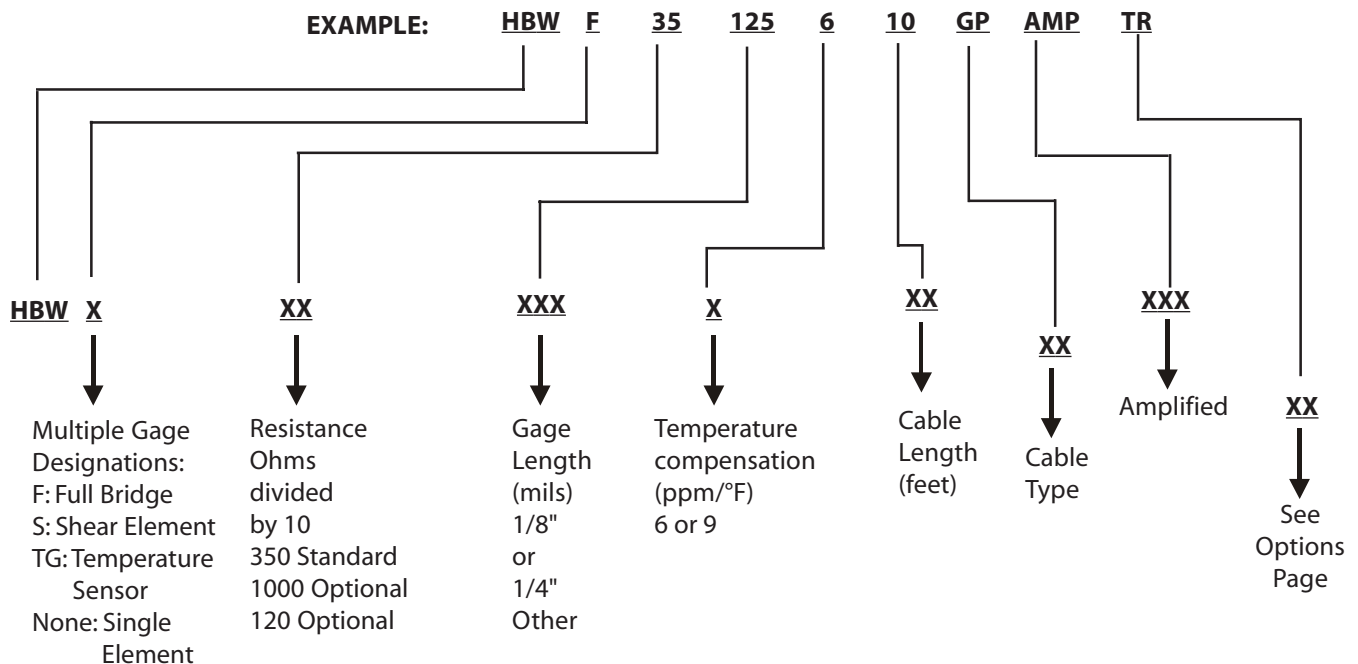
- Bridge Load Monitoring
- Ship Hull Monitoring and Testing
- Overload Frequency Recording
- Overload Sensing and Alarm Triggering
- Tunnel and Structural Monitoring & Testing
- Useable Before, During, or After Structural Construction
- Vehicle Weighing
- Roof Load Monitoring
- Concrete Pile Testing

WELDABLE STRAIN GAGES

Hitec Products weldable gages are precision foil strain gages bonded to stainless steel shim, pre-wired and waterproofed. The waterproofing material is a molded compound used for under sea cable connections. These specially constructed gages are capable of operation under adverse conditions and at temperatures to 180°F making them ideal for application on ship hulls, offshore drill rigs, power plant structures, railroad cars and tracks, and anywhere that an installation must be protected from the elements. HBW strain gages are available in a number of configurations designed to reduce installation costs. Detailed description of HBW models as well as pricing information is available from the factory.

HBW CABLE DESIGNATIONS:

- GP: General purpose 3 or 4 conductor shielded vinyl jacketed (#22 AWG)
- HP: 4 conductor heavy duty shielded vinyl jacket (#22 AWG)
- VR: 3 or 4 conductor vinyl ribbon (#26 or #30 AWG)
- TR: 3 or 4 conductor teflon ribbon (#26 or #30 AWG)
- UP: 4 conductor polyurethane (#22 AWG) shielded jacket
- VH: 4 conductor teflon shielded jacket (#26 AWG) with thick wall rubber



Most configurations are also available in custom configurations including mounting on a polyimide "shim" for installation with conventional adhesives. Consult factory for more information on these HBW gages.



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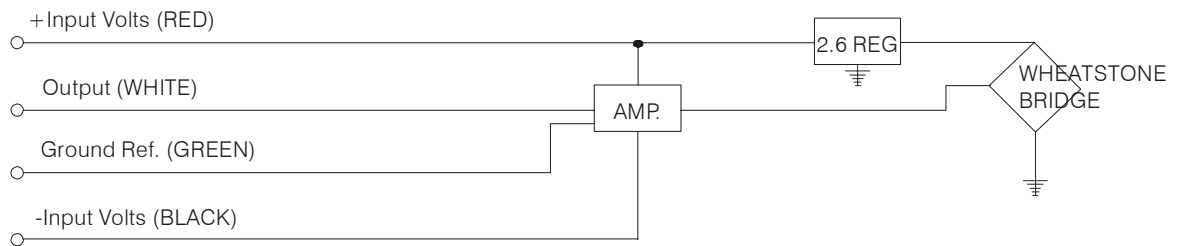
PRODUCT DATA SHEET

Integral Amplified and Bridge Voltage Option

An amplifier and voltage regulator can be incorporated into almost all full bridge weldables available. This option provides precision bridge voltage regulation and 100 times the normal signal output. Excellent signal to noise ratio, direct data acquisition, or direct voltage measurements of strain, and low power consumption are a few advantages gained when using this strain measuring transducer system.

HBWF - 35 - 125 - 6 - 10GP - AMP - TR

- Gage Resistance:** 350 Ohms (Standard)
1000 Ohms (Optional)
- Gage Factor:** 4.00 (Composite) Nominal
(2.00 Each Active Element)
- Amplifier Gain:** 100 (Factory Set)
- Bridge Voltage:** 2.6 VDC (Factory Set)
- Power Supply Requirements:** + 9 - 15 VDC (Standard)
± 5- ±15 VDC (Optional)
+ 5 VDC (Optional)



- Notes:**
- Please consult factory for specific option wiring diagrams.
 - A virtual ground connection can be supplied for voltage splitting applications. Consult factory for details.
 - The -Input Volts and Ground Reference wires can both be connected as Ground if tension only measurements are to be made.