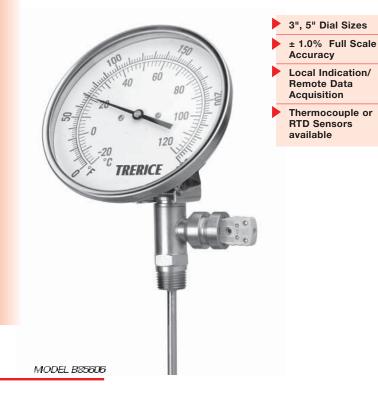
## **Bimetal Plus**

# **STRERICE**

### Integrated Thermocouple or RTD



The Trerice **Bimetal Plus** has all the standard features of the Trerice Bimetal Thermometer, but with a "Plus." The "Plus" being an internally mounted thermocouple or RTD. This allows for remote temperature monitoring while still providing local indication. This dual sensor design eliminates the need for additional instrumentation or connections when designing a system to include both mechanical and electronic temperature sensing.

 Optional features available: Please consult the Options & Accessories Section for details.

#### Thermowell

 For corrosive or pressure applications, use of a thermowell is recommended to prevent damage to the thermometer and facilitate its removal from the process (refer to pages 155-161).
 For correct use and application of all Bimetallic thermometers, please refer to the Bimetallic Actuated Thermometer Standard ASME B40.3.

### HOW TO ORDER

Sample Order Number: B856 06 05 TCJ

Model	Stem Length <sup>*</sup>	Range Code	Sensor Type
B836 B856 B832 B852	04 4" Stem 06 6" Stem 09 9" Stem 12 12" Stem 15 15" Stem 18 18" Stem 24 24" Stem	See Standard Ranges	TCE Type E Thermocouple TCJ Type J Thermocouple TCK Type K Thermocouple TCT Type T Thermocouple RTC 100Ω RTD

Other lengths available: Specify in inches (48" maximum).

Specifications					
Models	Dial Sizes/Stem Styles				
B836 B856	3" Adjustable Angle				
B832 B852	3" Rear Connection				
Case	300 stainless steel, hermetically sealed				
Stem	300 stainless steel, 1/4" diameter				
Coil	Bimetallic, silicone dampened on ranges to 300°F (148°C), above 300°F not dampened				
Process Connection	Adjustable or rear, 1/2 NPT				
Electrical Connection	T/C: Miniature plug RTD: Plug with molded cordset				
Window	Double strength glass				
Pointer	Balanced, black finished				
Dial Face	Aluminum, white background with black and blue graduations and markings				
External Reset Yes					
Accuracy	±1.0 % Full Scale ASME B40.3 Grade A				
Approximate Shipping Weight					
	B832: 0.9 lbs [0.41 kg] B852: 1.4 lbs [0.64 kg] B836: 1.3 lbs [0.29 kg] B856: 1.7 lbs [0.77 kg]				

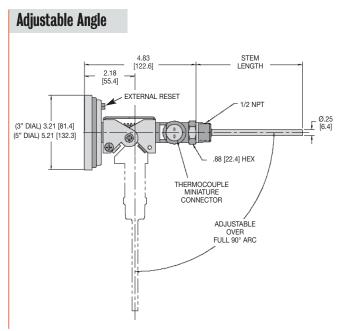


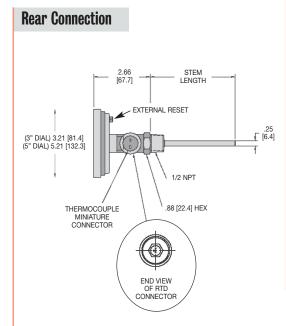
<sup>\*</sup> Minimum insertion length is 31/2".

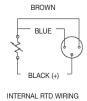


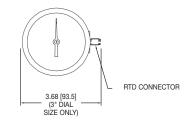
### **Bimetal Plus**

All dimensions are nominal. Dimensions in [ ] are in millimeters









### Standard Ranges\*

Dual Scale (Fahrenheit & Celsius Range)		Fahrenheit Only Range		Celsius Scale Only Range		Fahrenheit		Celsius	
Range Code	Range	Range Code	Range	Range Code	Range	Figure Intervals	Minor Divisions	Figure Intervals	Minor Divisions
01	−100 to 100°F & −75° to 40°C	01F	–100° to 100°F	01C	75° to 40°C	20°	2°	10°	1°
02	-40° to 160°F & -40° to 70°C	02F	–40° to 160°F	02C	–40° to 70°C	20°	2°	10°	1°
12	0° to 100°F & -20° to 40°C	12F	0° to 100°F	12C	-20° to 40°C	10°	1°	10°	1°
03	25° to 125°F & -5° to 50°C	03F	25° to 125°F	03C	–5° to 50°C	10°	1°	5°	1/2°
04	0° to 200°F & −20° to 95°C	04F	0° to 200°F	04C	–20° to 95°C	20°	2°	10°	1°
05	20° to 240°F & -10° to 115°C	05F	20° to 240°F	05C	–10° to 115°C	20°	2°	10°	1°
27	0° to 250°F & −20° to 120°C	27F	0° to 250°F	27C	–20° to 120°C	50°	2°	20°	2°
06	50° to 300°F & 10° to 150°C	06F	50° to 300°F	06C	10° to 150°C	50°	2°	20°	2°
08	50° to 500°F & 10° to 260°C	08F	50° to 500°F	08C	10° to 260°C	50°	2°	50°	2°

<sup>\*</sup> Minimum insertion length for all ranges is 31/2".



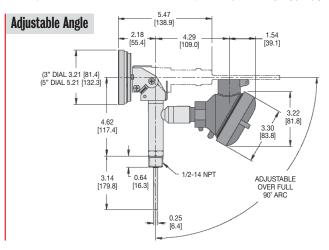
## **Bimetal Plus**

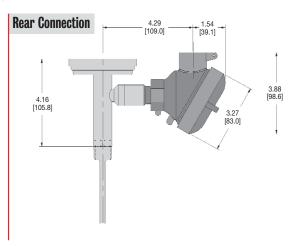


### Options & Accessories

### Connection Head with Terminal Block or Transmitter

The connection head is designed to provide a weatherproof, yet accessible conduit connection, and is used to house a terminal connection block or Trerice TRT30 Temperature Transmitter. The head is available with a screw cover (cast aluminum or stainless steel) or a flip cover (polypropylene), and includes a 3/4 NPT conduit connection.





The terminal block provides an electrical hook-up point within the connection head, allowing for quick and easy attachment of extension wiring. The Terminal Block is available with either a 2-wire (thermocouple) or 3-wire (RTD) connection. The Trerice TRT30 Series Temperature Transmitter will convert a thermocouple or output signal to a 2-wire 4-20 mA signal, thus eliminating electrical interference and allowing the signal to be transmitted over long distances. These units are specifically designed for installation into the connection head.

### Transmitter







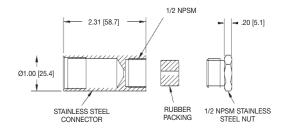
Specifications							
Model Input		Accuracy	Adjustment Range	Maximum Output Load	Output Signal		
TRT30	Type J, K or T Thermocouple	±0.1% of input span	±35% for both zero and span	Thermocouple: R max=(V supply-12V)/20 mA	4-20 mA		
	or 100Ω Platinum RTD			RTD: R max=(V supply-10V)/20 mA			

**Ordering Codes** 

	Terminal Block		Transmitter		
Connection Head	Thermocouple	RTD	Thermocouple	RTD	
Aluminum screw cover	ABT	ABR	ATT	ATR	
Polypropylene flip cover	PBT	PBR	PTT	PTR	
Stainless steel screw cover	SBT	SBR	STT	STR	

#### Weatherproofed Conduit Connection (WCC)

The conduit connection allows the Trerice Bimetal Plus Thermometer to be mounted directly to conduit piping, or used in applications where sprays and washes may come in contact with the electrical connection. This option consists of a stainless steel conduit connection tube, a packing grommet and a stainless steel connection fitting. Note: The Bimetal Plus with RTD Sensor does not require this option for weatherproof protection, as the RTD connection and cable are sealed for outdoor use. Please order using Option Code **WCC** (weatherproofed conduit connection).



#### How to Order

Specify the Optional Feature Code at the end of the Instrument Ordering Code. Sample Order Number: B856 06 05 TJC WCC

