

Retort

for Food Processing

INDUSTRIAL THERMOMETERS



BX13403R21 shown

- ▶ 9" Scale Size
- ▶ ± 1 Scale Division Accuracy
- ▶ Cast Aluminum Case
- ▶ Rigid Straight Case
Rigid 45° Angle Case
Rigid 90° Angle Case

The Terrice **Retort** Industrial Thermometer is the instrument of choice within the food processing and canning industries. The scale is configured to indicate the temperature and corresponding pressure of steam. This thermometer is furnished with a rigid, stainless steel stem, in straight or angle forms, and features a 9" scale and rugged cast aluminum case.

- Optional features available: Please consult Options & Accessories Section for details.
- This thermometer includes a one-piece stainless steel stem and is designed to be directly installed using a union connection bushing (page 99); therefore, use of a thermowell is not required.

Specifications

Models	Scale Size
BX1	9" Rigid Straight
BX2	9" Rigid 90° Angle
BX5	9" Rigid 45° Angle
Fill Type	Mercury: Blue appearing
Case	Cast Aluminum, blue epoxy finish
Stem	One-piece, 304 stainless steel
Process Connection	1 1/4 -18 UNEF-2A coupling nut (A union connection bushing is required for installation; please consult page 99 of the Options and Accessories section.)
Window	Acrylic on ranges to 300° F Glass on ranges over 300° F
Tube	Lens Front, blue appearing mercury
Scale	Aluminum, white background with black graduations and markings
Top Plate	ABS
Accuracy	±1 scale division
Approximate Shipping Weight	BX1: 1.4 lbs [0.64 kg] BX2: 1.3 lbs [0.59 kg] BX5: 1.4 lbs [0.64 kg]

HOW TO ORDER

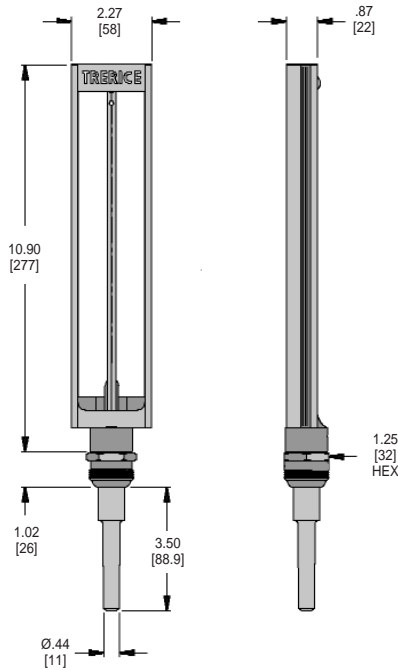
Sample Order Number: **BX1 3 403 R21**

Model	Stem (Material)	Stem (Length)	Specific Range
BX1 Straight BX2 90° Angle BX5 45° Angle	3 304 SS	403 3 1/2"	See Standard Ranges

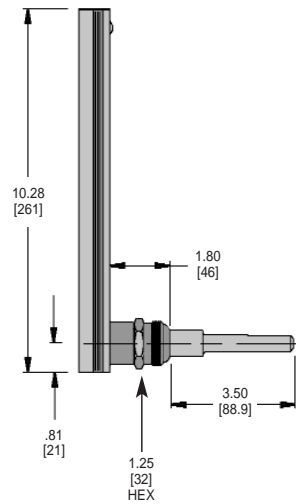
Retort

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

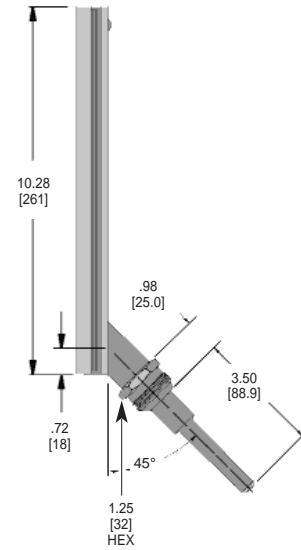
Rigid-Straight



Rigid-90° Angle



Rigid-45° Angle



INDUSTRIAL THERMOMETERS

Standard Ranges

Fahrenheit & psi Scale		Fahrenheit		psi	
Range Code	Range	Figure Intervals	Minor Divisions	Figure Intervals	Minor Divisions
R21	170° to 270°F & 0 to 25 psi	10°F	1°F	5 psi	1 psi
R22	200° to 400°F & 0 to 220 psi	20°F	2°F	Progressive*	
Fahrenheit & Celsius Scale		Fahrenheit		Celsius	
Range Code	Range	Figure Intervals	Minor Divisions	Figure Intervals	Minor Divisions
R24	170° to 270°F & 80° to 130°C	10°F	1°F	5°C	1°C
R23	200° to 400°F & 95° to 205°C	20°F	2°F	105°C	1°C
Celsius & kg/cm ² Scale		Celsius		kg/cm ²	
Range Code	Range	Figure Intervals	Minor Divisions	Figure Intervals	Minor Divisions
R45	80° to 135°C & 0 to 2.1 kg/cm ²	5°C	0.5°C	0.5 kg/cm ²	0.1 kg/cm ²

*Progressive scale: 0-40 (10 psi intervals); 40-120 psi (20 psi intervals), 120 to 180 psi (30 psi intervals), 180 to 220 psi (40 psi interval).