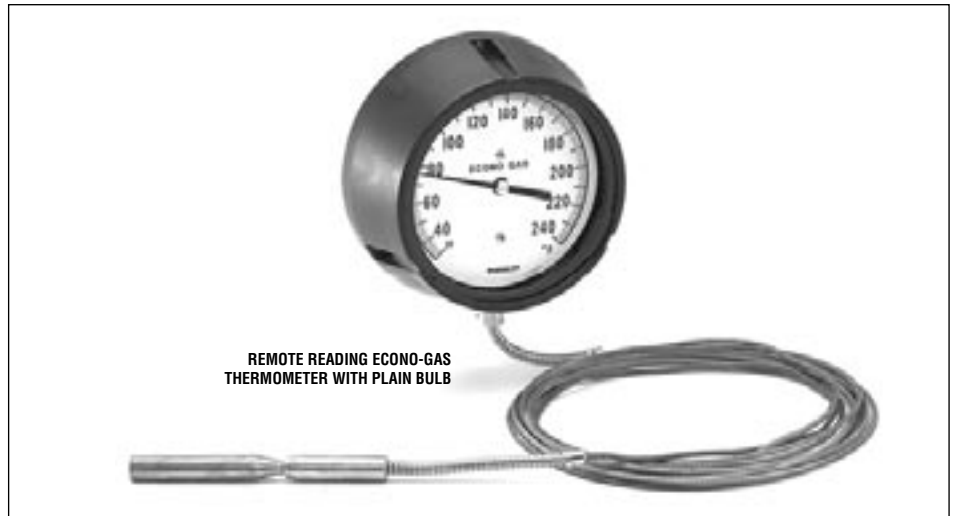


## Direct or Remote Mounted Econo Gas-Actuated Thermometers

### STANDARD FEATURES

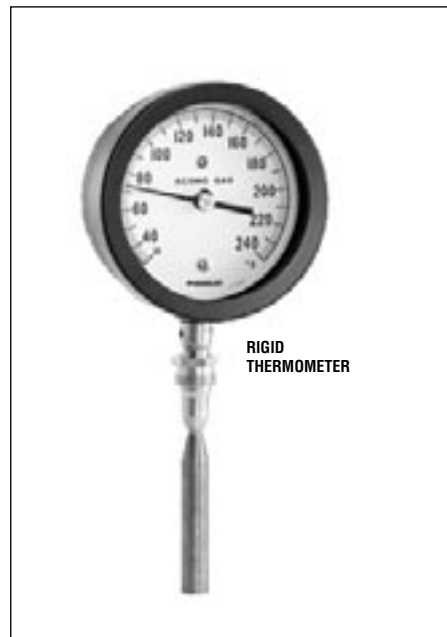
- Uniformly graduated scales
- Accurate to  $\pm 1\%$  of range span
- 3 $\frac{1}{2}$ " and 4 $\frac{1}{2}$ " dial sizes
- Adjustable pointer
- Fast response
- Inert gas fill – ideal for applications where Mercury is prohibited
- Copper Bulb,  $\frac{1}{2}$ " diameter with brass fittings
- Bronze bushed rotary type brass movement



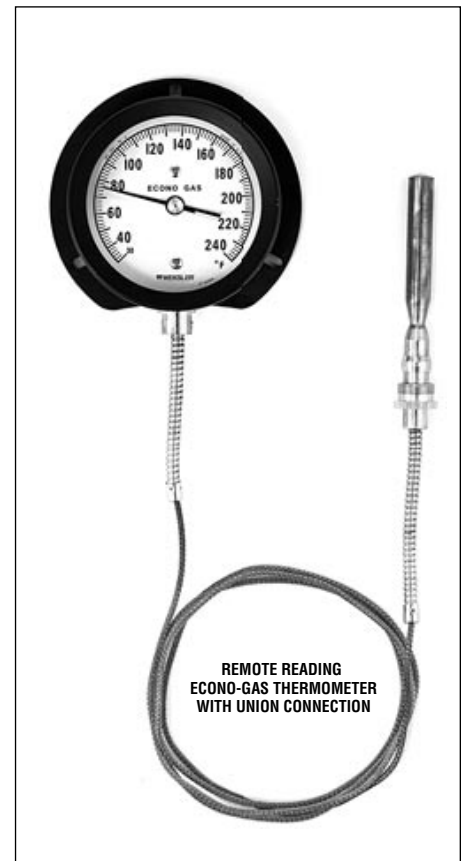
REMOTE READING ECONO-GAS  
THERMOMETER WITH PLAIN BULB



ADJUSTABLE ANGLE  
DIAL THERMOMETER



RIGID  
THERMOMETER



REMOTE READING  
ECONO-GAS THERMOMETER  
WITH UNION CONNECTION

### STANDARD TYPE "P" CAPILLARY TUBING



0.125" O.D. Copper Braided Protective Covering Over Copper Capillary  
AVAILABLE LENGTHS: 5, 10, 15, 20, 25 or 30 feet.

**TABLE 1**

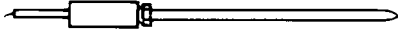


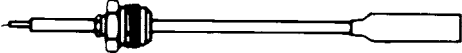
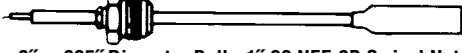

REMOTE AND DIRECT MOUNTED TYPES		
BASE CATALOG NO.	DIAL SIZE	TYPE
313E 413E 613E	3½" 4½" 6"	REMOTE MOUNTED
333E 433E	3½" 4½"	ADJUSTABLE ANGLE
323E 423E	3½" 4½"	RIGID (NOT ADJUSTABLE)

**TABLE 3 – CASE STYLES**

WALL MOUNTED TYPES	
CODE	CASE TYPE
P	Molded polypropylene, Turret Type Standard – 4½" dial size only.
A	Aluminum, Rear Flange Black Aluminum Bayonet Ring Standard – 3½" dial size. Extra cost option – 4½" dial size.
X	Stainless Steel, Rear Flange Stainless Steel Bayonet Ring Extra cost option – 4½" dial size.
FLUSH PANEL MOUNTED STYLES	
E	Aluminum Case Black Threaded Front Flange Ring Extra cost option – all dial sizes.
B	Aluminum Case, Semi-Flush Mounting Black Aluminum Bayonet Ring Extra cost option
V	Stainless Steel Case and Bayonet Ring Front Flange – Semi-Flush Mounting Extra cost option – 4½" dial sizes only.
W	Aluminum Case Hinged Front Plastic Bezel Extra cost option – 4½" dial size.
DIRECT MOUNTED TYPES	
CODE	CASE TYPE
P	Molded polypropylene, Turret Type Standard on 4½" dial size. (Not available in other dial sizes.)
C	Aluminum, Flangeless Black Aluminum Bayonet Ring. Standard on 3½" dial size. Extra cost option for 4½" dial size.
Y	Stainless Steel, Flangeless Stainless Steel Bayonet Ring Extra cost option for 3½" or 4½" dial sizes

For complete case description and dimensions refer to pages 108-111

**TABLE 2 – BULB TYPE AND SIZE**

FOR ALL MOUNTED TYPES		CODE									
<b>PLAIN BULB FOR AIR TEMPERATURE</b>  12" Long .375 Diameter Optional Fittings: A16 Bulb Mounting Bracket		A									
<b>PLAIN BULB FOR LIQUIDS IN OPENTANKS, VATS, SINKS, ETC.</b>  6" Long .50" Diameter Optional Fittings: A1 ½ NPT Compression Fitting A12-2 Set Screw Flange		C									
<b>PLAIN BULB WITH 12" BENDABLE EXTENSION</b> 	3" x .375" Diameter Bulb 3" x .625" Diameter Bulb	1 E									
<b>SLIDING UNION CONNECTION WITH 12" BENDABLE EXTENSION</b>  3" x .375" Diameter Bulb, ½ NPT Swivel Nut Optional Fittings: All "K" Series Thermowells 2F2 Flange		3									
<b>SLIDING UNION CONNECTION WITH 12" BENDABLE EXTENSION</b>  3" x .625" Diameter Bulb, 1"-20 NEF-2B Swivel Nut Optional Fittings: All "5F" Series Thermowells All "5F" Series Bushings		N									
DIRECT MOUNTED TYPES											
<b>½" O.D. Bulb – ¼"-24 NS-2 Swivel Nut with Compression Fitting</b> Union Connection (fixed length) Wells, busings or flanges required for installation 	<table border="1"> <thead> <tr> <th>CODE</th> <th>STEM LENGTH</th> <th>FITS WELL*</th> </tr> </thead> <tbody> <tr> <td>J</td> <td>3½"</td> <td>4½" O.A.</td> </tr> <tr> <td>K</td> <td>6"</td> <td>6½" O.A.</td> </tr> </tbody> </table>	CODE	STEM LENGTH	FITS WELL*	J	3½"	4½" O.A.	K	6"	6½" O.A.	
CODE	STEM LENGTH	FITS WELL*									
J	3½"	4½" O.A.									
K	6"	6½" O.A.									
Optional Fittings: "4B Series" Thermowells "4B Series" Bushings All-2 Flange											



**How To Order Econo Gas Actuated Thermometers**

**TABLE 4**

CONNECTION LOCATION	AVAILABILITY	
	ADJUST ANGLE	RIGID TYPE
CODE		
L = Lower	•	•
R = Rear		•

**TABLE 5**

CODE	CASE FEATURE
0	None
2	Flush mounting ring and contact
F	Flush mounting ring only
C	Contact

**TABLE 6**

CODE	CAPILLARY TYPE
X	None required
P	Copper with braided copper covering

**TABLE 7 – BULB DIMENSIONS**

CODE	LENGTH	DIAMETER
DG	3 1/2"	1/2 (.50)
GG	6"	1/2 (.50)
CG	12"	1/2 (.50)

**TABLE 8**

CODE	OPTIONS
0	None
D	25" bendable extension
E	30" bendable extension

**TABLE 9 – STANDARD RANGES**

CODE	FAHRENHEIT	DIVISIONS
FD	-20 to 120°F	1°
FE	0 to 100°F	1°
FR	30 to 150°F	1°
FM	30 to 240°F	2°
FI	0 to 300°F	2°
CODE	CELSIUS	DIVISIONS
CM	-30 to 50°F	1°
CD	0 to 100°F	1°
CR	30 to 150°F	1°
CODE	DUAL	DIVISIONS
DL	0 to 100°F -18 to 38°C	1°
DH	30 to 240°F 0 to 115°C	2°

**TABLE 10**

CODE	LENGTH OF CAPILLARY TUBING
00	None
2	2'
12	12'
1C	100'

**HOW TO ORDER**

4
3
3
E
J
V
L
0
X
DG
0
FD
00
( )

1. Specify 4-digit Base Catalog No. from Table 1 \_\_\_\_\_
2. Add Bulb Digit from Table 2 \_\_\_\_\_
3. Add Case Style Digit from Table 3 \_\_\_\_\_
4. Add Connection Location Digit from Table 4 \_\_\_\_\_
5. Add Case Feature Digit from Table 5 (enter "0" if none) \_\_\_\_\_
6. Add Capillary Type Digit from Table 6 (enter "X" if none required) \_\_\_\_\_
7. Add Bulb Dimension Digits from Table 7 \_\_\_\_\_
8. Add Bendable extension Length Digit Options from Table 8 (enter "0" if none required) \_\_\_\_\_
9. Add Range Code Digits from Table 9 \_\_\_\_\_
10. Add Length of Capillary Digit(s) from Table 10 (enter "00" if none required) \_\_\_\_\_
11. Add Optional Feature Code from Page 112 if needed \_\_\_\_\_