



**ROCHESTER  
GAUGES, INC.**

ISO 9001:2008 CERTIFIED

# ***Bimetal Industrial Thermometers***

## Application

These 3" [75 mm] thermometers are used extensively in the oil, chemical, food, paper, textile and power industries because of their ability to withstand rough treatment and difficult environments.

## Materials Of Construction\*

### Case, Stem, Bezel & Nut

Type 304 stainless steel case

### Dial

Aluminum

### Sensing Element

Bimetallic

### Lens

Glass (Acrylic or tempered glass available at extra cost)



## General Specifications\*

These thermometers are available with or without a recal feature. A ½" NPT threaded connection is standard. For greatest accuracy, the stem should be inserted at least 2" into liquids and 4" into gases. Prescribed accuracy is 1% of scale range. Each thermometer is hermetically sealed and dampened.

\* Materials and specifications are subject to change without notice.

Pressure ratings subject to change due to temperature and other environmental considerations.

## How To Order

**B** = Bottom mounted

**G** = Glass lens

**13** = 3" size

**50** = ½" NPT threaded connection

**-** = Hyphen

**0** = No special feature

**R** = Recal feature included

**10** = 0° to 300°F temperature range

**12** = 12" stem length

**Example:** RG1350-R1012

## Available Temperature Ranges

Fahrenheit	
01	-150° to 50°
03	-50° to 120°
08	0° to 100°
09	0° to 200°
10	0° to 300°
11	0° to 500°
12	0° to 800°
13	25° to 125°
14	30° to 240°
16	50° to 350°
17	50° to 400°
21	200° to 1000°
24	0° to 220°
25	-70° to 150°
49	0° to 250°

Centigrade	
28	-50° to 50°
29	-50° to 100°
30	-10° to 110°
31	0° to 50°
32	0° to 150°
33	0° to 200°
34	0° to 300°
35	0° to 400°
48	0° to 250°
56	100° to 540°

Dual-Scale	
40	-70° to 50°C -90° to 130°F
43	0° to 300°C 40° to 570°F
68	10° to 150°C 50° to 300°F

Other ranges and scales may be available if justified by quantity.

01/20/10



### Order Number Description

<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	—	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>
Case Style	Lens Material	Dial Size	Bushing				Special Features	Temperature Ranges			Stem Length	

### Example: RG1350-R1712 translates to:

- R** = Rear Mounting  
**G** = Glass lens  
**13** = 3" dial  
**50** = ½" NPT connection  
**R** = With recalibration feature  
**17** = 50° to 400°F temperature range  
**12** = 12" stem

### Case Styles

- R** = Rear Mounting  
**B** = Bottom Mounting  
**A** = Any Angle (5" recal only)

### Lens Materials

- G** = Glass (not available for 4" max/min)  
**P** = Acrylic  
**T** = Tempered Glass  
 (not available in 1" or 2" dial sizes)

### Dial Sizes

<b>11</b> = 1"	<b>12</b> = 2"	<b>13</b> = 3"	<b>14</b> = 4"	<b>15</b> = 5"
----------------	----------------	----------------	----------------	----------------

### Bushing

- 00** = Unthreaded (1" & 2" dial sizes only)  
**50** = ½" NPT  
**37** = ⅜" NPT (special orders only)  
**25** = ¼" NPT  
 (2" dial size only & special orders only)

### Special Features

- 0** = None  
**R** = With recalibration (2", 3", & 5" dial sizes only)  
**M** = Max/min indicating pointer (4" size only)

### Stem Lengths

<b>25</b> = 2 ½"	<b>04</b> = 4"	<b>05</b> = 5 ½"	<b>06</b> = 6"
------------------	----------------	------------------	----------------

<b>09</b> = 9"	<b>12</b> = 12"	<b>15</b> = 15"	<b>18</b> = 18"	<b>24</b> = 24"
----------------	-----------------	-----------------	-----------------	-----------------

**NOTE:** Other ranges, scales, stem lengths, dial colors, and features are available by special order if quantities justify. Call your Rochester Gauges representative or call us directly for information regarding the availability and cost of special orders.

### Temperature Ranges

(See series for available ranges)

- 01** = -150° to 50°F (3" & 5" dials only)  
**03** = -50° to 120°F (excluding 1" & 4" dials)  
**06** = -40° to 160°F (1" & 5" dials only)  
**08** = 0° to 100°F (excluding 1",  
 4" max./min. dials, 4" min. stem length)  
**10** = 0° to 300°F (excluding 1" dials)  
**11** = 0° to 500°F (excluding 1" dials)  
**12** = 0° to 800°F (excluding 1" dials &  
 4" max./min. dials)  
**13** = 25° to 125°F (4" min. stem length,  
 excluding 4" max./min. dials)  
**14** = 30° to 240°F  
**16** = 50° to 350°F (excluding 1" & 4" dials)  
**17** = 50° to 400°F (excluding 1" dial)  
**19** = 150° to 750°F (excluding RG1250 & 3" dials)  
**21** = 200° to 1000°F (excluding 1" dial)  
**24** = 0° to 220°F (excluding 4" dial)  
**25** = -70° to 150°F (excluding 1" dial)  
**49** = 0° to 250°F (excluding 1" dial)

- 28** = -50° to 50°C (excluding 1" & 4" dials)  
**30** = -10° to 110°C (excluding 1" dial)  
**31** = 0° to 50°C (excluding 1" &  
 4" dials, 4" min. stem length)  
**32** = 0° to 150°C (excluding 4" dial)  
**33** = 0° to 200°C (excluding 1" &  
 4" dials without max./min.)  
**34** = 0° to 300°C (excluding 1" & 4" dials)  
**35** = 0° to 400°C (excluding 1" dial)  
**48** = 0° to 250°C (1" dial only)  
**56** = 100° to 540°C (excluding 1", 2", & 4" dials)  
**64** = 0° to 120°C (4" dial only)

### Dual Scale Temperature Ranges

- 40** = -70° to 50°C (excluding 1" & 4" dials)  
 -90° to 130°F  
**43** = 0° to 300°C (excluding 1" & 4" dials)  
 40° to 570°F  
**68** = 10° to 150°C (excluding 1", 2", & 4" dials)  
 50° to 300°F