



**ROCHESTER
GAUGES, INC.**

Remote Heat Indicator

2110/2210
Series

ISO 9001:2008 CERTIFIED

Application

Rochester 2-inch, remote-reading, heat indicators are designed for the measurement of water, lube-oil and torque-converter-oil temperature where accuracy and reliability are necessary under a wide range of severe conditions. Typical applications include heavy duty mobile, stationary and marine engines, farm tractors and other off-highway equipment.

General Information & Features

In these heat indicators, the indicating portion is a diaphragm-type pressure indicator which is specially built to resist vibration and shock as well as overpressure caused by higher than normal temperatures. The indicating portion is connected to the remote temperature-sensing bulb by means of a capillary tube. The capillary tube is soldered to both the case and the temperature bulb and is provided with a heavy-duty strain relief at both ends to prevent tube distortion or disruption of the solder seal by severe environments. The capillary tube is also protected throughout its entire length by a polypropylene sheath. The glass lens and bezel are permanently crimped to the case and sealed with a resilient gasket material.

The indicator functions by responding to changes in the vapor pressure of methylene chloride contained within the remote-temperature-sensing bulb.

The standard heat indicator has a range of 100-250°F with numbered divisions on the dial at 100, 140, 180, 210, 230, and 250°F.

Each heat indicator is furnished with a drain hole at the 6:30 location.



Remote Heat Indicators

01/20/10

See reverse side for dimensional data, materials of construction, performance, and advice on how to order.

The Measure of Excellence

2110/2210 Series Remote Heat Indicator

General Specifications*

Mounting

Model 2110 — clamp mounted

Model 2210 — direct mount

Accuracy

±5% of indicated points on the scale.

Sensitivity

Pointer action is virtually frictionless. Following pressure changes smoothly and positively.

Response Speed

For stirred liquids using standard bulb. Temperature constant is 15 seconds.

Temperature Exposure

Not damaged when complete assembly is exposed to temperature of -50°F to 250°F.

Adverse Environment

Lens and bezel are sealed against rain, ice, sand and dust.

Shock

Will withstand up to 10 Gs shock without damage.

Vibration

Suitable for continuous duty under 2 Gs vibration up to 100Hz.

Standard Construction*

Case

Terneplate steel, painted black

Lens

Glass

Bezel

Polished stainless-steel

Dial

Aluminum

Diaphragm

Phosphor-bronze, mechanically secured and soft-soldered

Bulb

Copper

Pointer

White-arrow-point, dampened

Studs

10-32 mounting (Model 2110 only)

Drain Hole

6:30 location in case

Capillary Tube

Copper with polypropylene sheath

Union Nut

5/8"-18

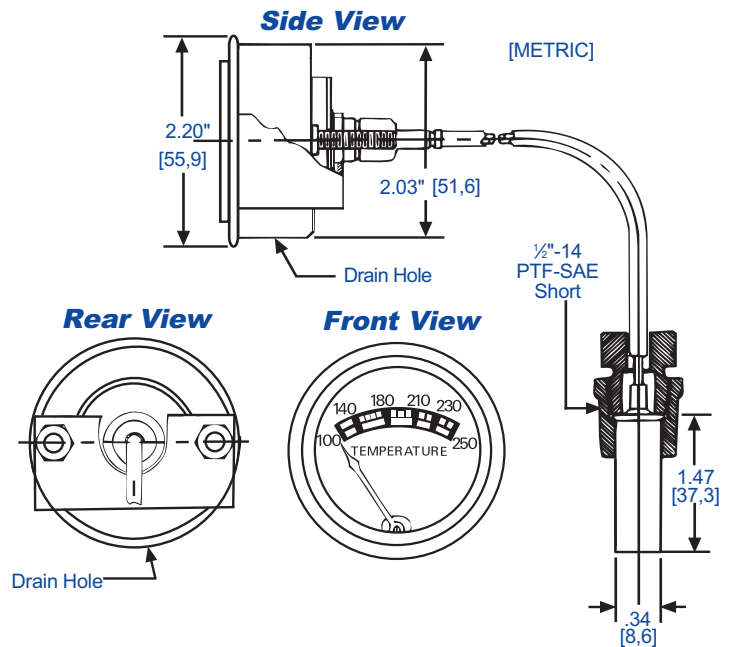
Mounting Clamp

Nuts and washers (Model 2110 only)

Standard Temperature Range

100-250°F

* Materials and specifications are subject to change without notice.
Pressure ratings subject to change due to temperature and other environmental considerations.



When Ordering, Specify:

1. Model number
2. Dial range
3. Length of capillary tube
4. Details of any non-standard dial.
One-Time artwork charges may apply.
5. Any options desired (from list)

Other Available Options

- Capillary tube, specify length
- Unsealed window slots in case
- Attach the clamp, nuts & washers
- Omit clamp, nuts & washers
- Individual boxing
- Tape disk over drain hole
- Black arrow-point pointer
- Stamp customer part number on case
- Straight pointer
- Black-bezel
- Omit bulb adaptor
- 3/8" NPT connector nut
- Lexan lens
- Custom 2-color, 3-color, & 4-color dials