



ISO 9001:2008 CERTIFIED

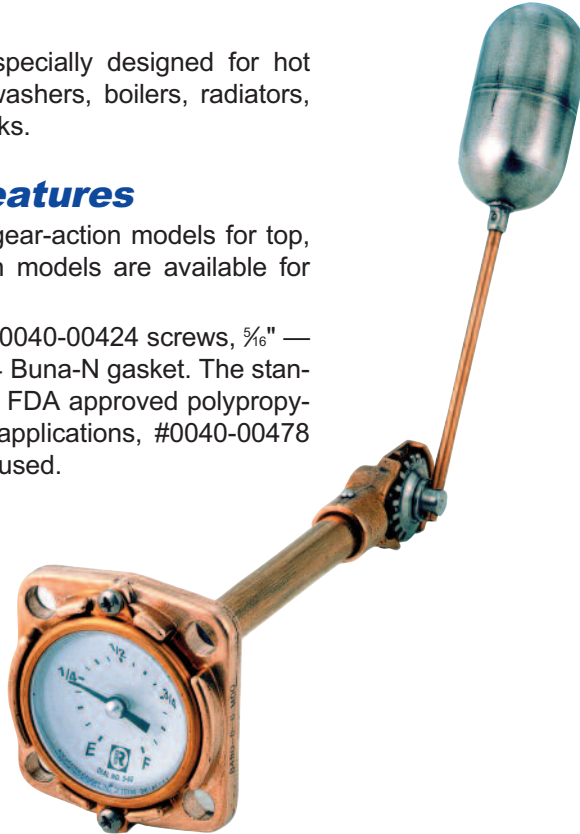
**Application**

The 8400 Series Senior™ gauges were specially designed for hot and/or pressurized-water service on dishwashers, boilers, radiators, marine vessels (water or fuel), and fire trucks.

**General Information & Features**

The 8400 Series gauges are available in gear-action models for top, centerline or angle mounting. Lever-action models are available for centerline mounting.

These gauges are mounted by using four #0040-00424 screws, 5/16" — 24 x 5/16", and a UL recognized #0015-00004 Buna-N gasket. The standard float is stainless steel. Nitrophyl or an FDA approved polypropylene float are also available. For marine applications, #0040-00478 stainless-steel mounting screws should be used.



**Magnetic Liquid-Level Gauges**

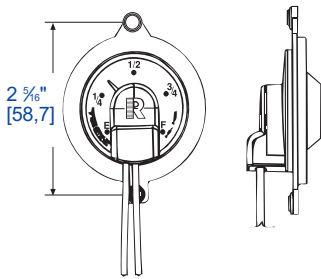
Model #	Action	Mounting	Dial, Sender or Switch Data
8440	Gear	Top	Senior TwinSite™ Sender in choice of 0-30, 0-90, or 240-30 Ohm ranges. Direct-reading dials may also be used.
8443		C/L or Angle	
L8443	Lever	C/L	
8450	Gear	Top	Standard switch #5023S00778 S.P.S.T., 150 VAC/50 VDC ½ Amp. Please furnish tank drawings and switch points so proper gauge and calibration can be supplied. Other switches available, see DS-364.
8453		C/L or Angle	
L8453	Lever	C/L	
8460	Gear	Top	#5097S00570 Senior™ side-reading fractional dial
8480		C/L or Angle	#5141S00570 Senior™ direct-reading fractional
8483			
L8483	Lever	C/L	#5141S00872 Senior™ direct-reading fractional

## 8400 Series

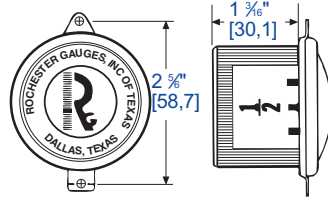
# Magnetic Liquid-Level Gauges

[METRIC]

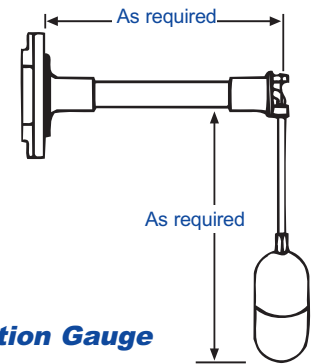
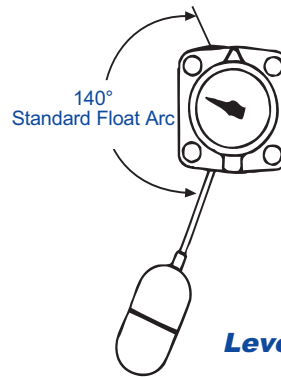
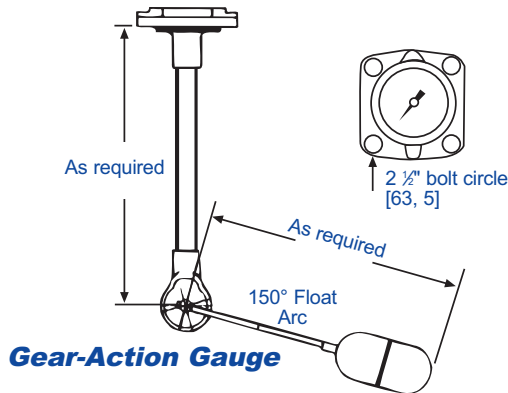
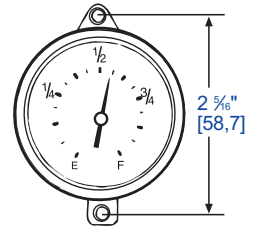
### Senior™ TwinSite™ Sender specify Ohm range



### #5097S00570 Senior™ side reading dial



### #5141S00062 Senior™ direct reading dial



## General Specifications\*

### Dial Data

Dials & senders are hermetically sealed & tested in 8" Hg vacuum.

### Accuracy

Depends on proper sizing of gauge and tank configuration. Normally, direct-reading dials are  $\pm 3\%$ ; side-reading dials  $\pm 4\%$ ; TwinSite™ senders  $\pm 7\%$ . Vibration improves accuracy.

### Temperature Range

Standard is  $-40^{\circ}\text{F}$  to  $158^{\circ}\text{F}$ ,  $-40$  to  $70\text{C}$ .

### Humidity

Exposed portion is suitable for high humidity and marine applications, if optional stainless steel mounting screws are specified.

### Shock

Suitable for mobile applications.

### Vibration

Suitable for mobile applications.

### Power

0.5 watts maximum for TwinSite™ version.

### Tank Pressure

0 to 100 psig [0 to 6,85 Bar].

### Approvals

Some models are UL recognized for marine service applications.

Note: For installation instructions see MS-501/502 (mounting standard).

## Materials of Construction\*

### Head & Gear Housing

Brass forging.

### Centershaft, Support Tube & Float Rod

Brass.

### Gears, Cross Stud, Float & Bearings

Stainless steel.

### Drive Magnet

Plated Alnico.

### Direct-Reading Dial

Aluminum with acrylic crystal and brass bezel.

### Side-Reading Dial

Aluminum with polycarbonate crystal and brass bezel.

### TwinSite™ Sender

Nylon.

### Mounting Screws

Zinc-plated steel.

\* 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. Gauge model number.
2. Tank diameter and riser height.
3. Mounting location.
4. Any listed options.

01/20/10