



ISO 9001:2008 CERTIFIED

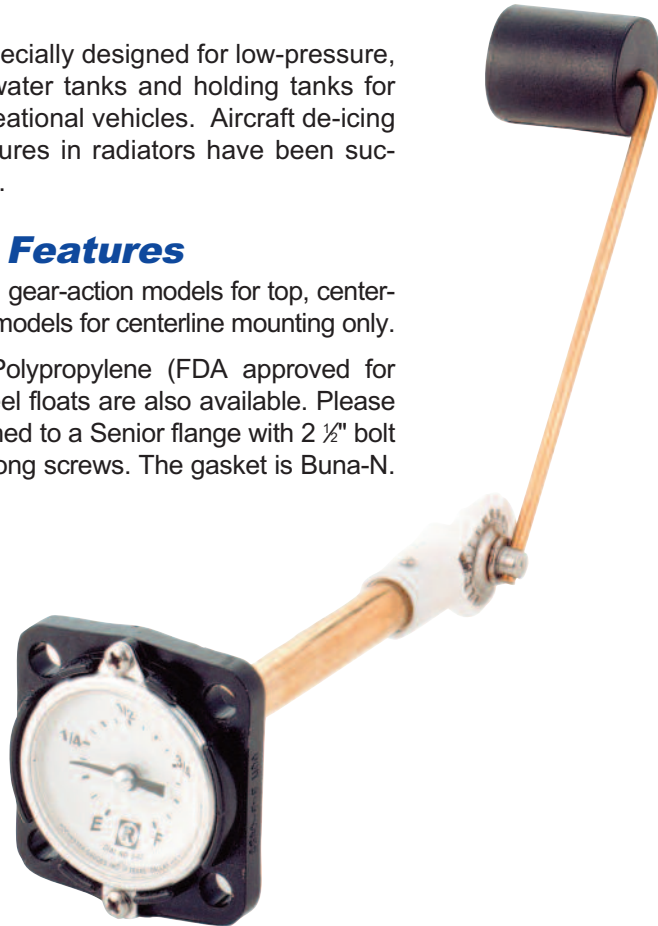
Application

The 8500 Series Senior gauges are specially designed for low-pressure, ambient temperature use in potable water tanks and holding tanks for gray or waste water on boats and recreational vehicles. Aircraft de-icing liquids and ethylene glycol/water mixtures in radiators have been successfully measured with these gauges.

General Information & Features

The 8500 Series gauges are available in gear-action models for top, centerline or angle mounting or in lever-action models for centerline mounting only.

The standard float is nitrile rubber. Polypropylene (FDA approved for potable water service) and stainless-steel floats are also available. Please specify your choice. The gauge is attached to a Senior flange with 2 1/2" bolt circle through use of four, 1/4" - 28 x 3/8" long screws. The gasket is Buna-N.



Model #	Action	Mounting	Dial, Sender or Switch Data
8540	Gear	Top	Senior TwinSite™ Sender in choice of 0-30, 0-90, or 240-30 Ohm ranges. Direct-reading fractional dials may also be used.
8543		C/L or Angle	
8550		Top	Senior S.P.S.T., 1/2 Amp., standard. Many other switches available, see DS-364.
8553		C/L or Angle	
8560		Top	Senior side-reading fractional dial.
8580		C/L or Angle	#5002S00062 Senior™ direct-reading.
8583			#5141S00570 Senior™ direct-reading.
L8543	Lever	C/L	Senior S.P.S.T., 1/2 Amp., standard. Many other switches available, see DS-364.
L8553			#5002S00547 Senior™ direct-reading.
L8583			

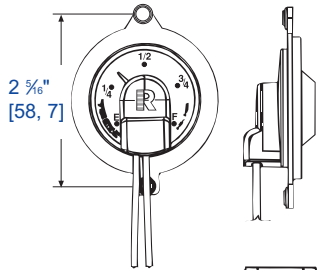
Magnetic Liquid-Level Gauges

8500 Series

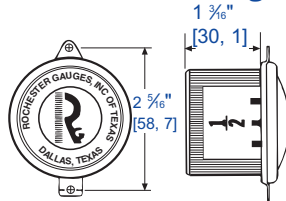
Magnetic, Liquid-Level Gauges

[METRIC]

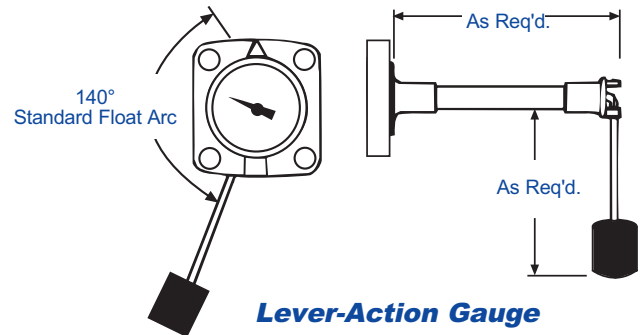
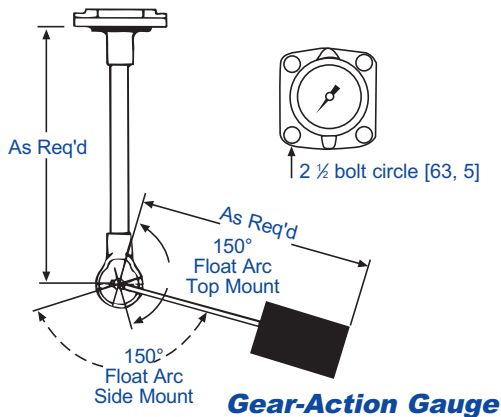
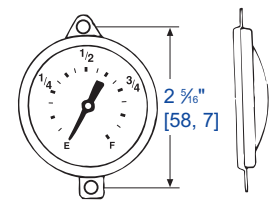
Senior TwinSite™ Sender specify ohm range



#5025S00570 Senior Direct Reading Dial



#5002S00062 Senior Direct Reading Dial



General Specifications*

Dial Data

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

Accuracy

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

Temperature

Standard operating temperature range -40°F to $+158^{\circ}\text{F}$, -40 to 70C .

Humidity

Exposed portion is suitable for high humidity and marine applications.

Shock

Suitable for mobile applications.

Vibration

Suitable for mobile applications.

Power

0.5 watts maximum for TwinSite® version.

Tank Pressure

0 to 25 psig [0 to 1, 7 Bar].

Approvals

UL recognized for marine water service.

Note: For installation instructions see DS-716 (data sheet).

Materials of Construction*

Head

Injection-molded polyester plastic.

Gear Housing or Stop Adapter

Injection-molded acetal plastic.

Support Tube, Centershaft, & Float Rod

Brass

Gears, Cross Stud, & Bearings

Stainless steel

Drive Magnet

Plated Alnico

Direct-Reading Dial

Aluminum with Acrylic crystal

Side-Reading Dial

Aluminum with Lexan crystal

TwinSite™ Sender

Polyamide.

* 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