

Magnetic Liquid-Level Gauge



Applications

The 6500 Series Senior gauges are designed for use in low pressure tanks 0-25 psig [0-1,7Bar].

Used in many applications such as construction equipment, stationary generators, boats, farm equipment and home heating.

Gauge materials are intended for middle distillates such as diesel and are not intended for use in fuels containing ethanol. These gauges may be sized to fit stationary fuel tanks up to eight feet deep.

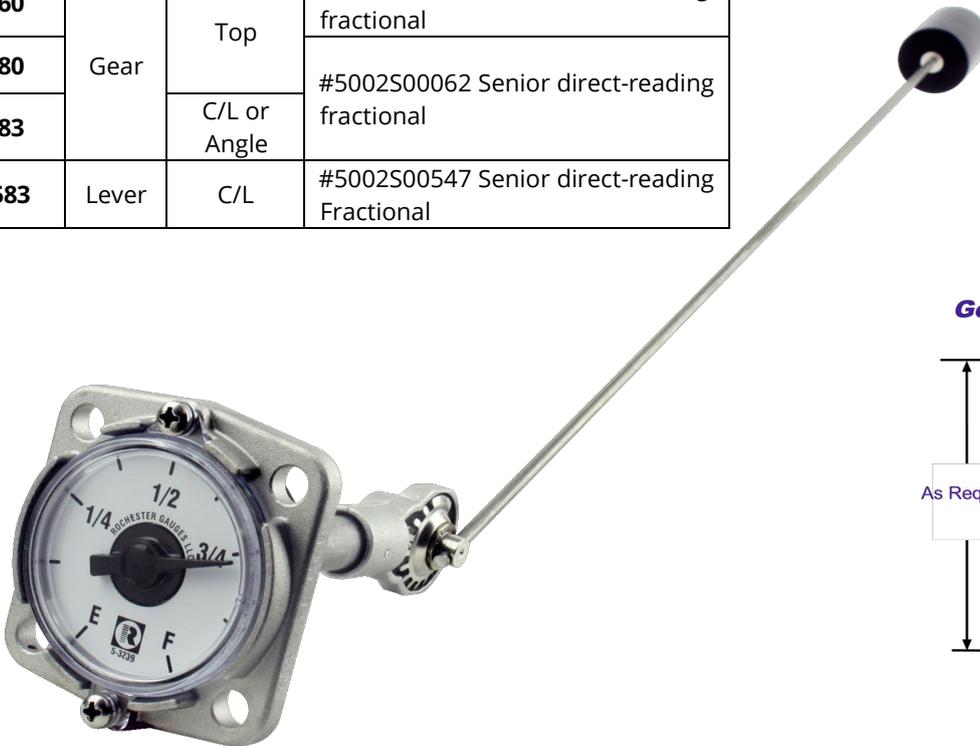
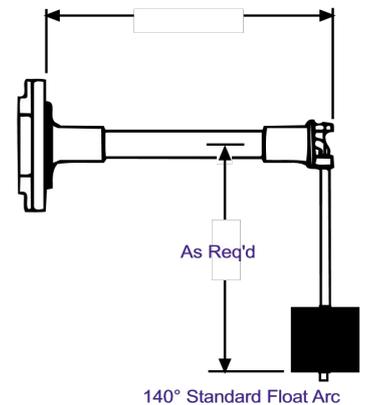
Rochester gauge dials are magnetically driven. Fuel vapor cannot reach inside of the gauge lens and attack the UV rated lens material. Rochester gauges may be easily converted remote output by simply installing the R3D replacement dial and plug-in Hall Effect sender module.

General Information & Features

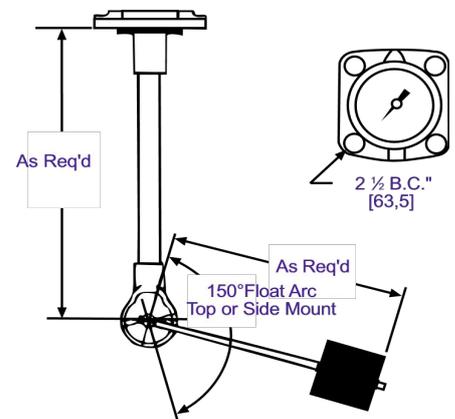
The 6500 Series Senior gauges are available in gear-action models for top, centerline or angle mounting. In lever-action models centerline mounting is only available.

The standard float is nitrile rubber. Aluminum or stainless steel floats are available at extra cost. The gauge is mounted to a mating Senior flange 2 1/2 " bolt circle [63,5mm] using four 1/4 "-28 x 9/16" long bolts. The gasket is Buna-N.

Models #	Action	Mounting	Dial, sender or Switch Data
6540	Gear	Top	Senior TwinSite® Sender in choice of 0-30, 0-90, or 240-30 Ohm ranges. #5002S00062 direct-reading dials may also be used.
6543		C/L or Angle	
L6543		C/L	
6560	Gear	Top	#5025S00570 Senior side-reading fractional
6580			#5002S00062 Senior direct-reading fractional
6583		C/L or Angle	#5002S00547 Senior direct-reading Fractional
L6583	Lever	C/L	



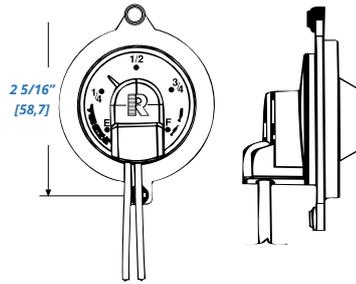
Gear Action Gauge



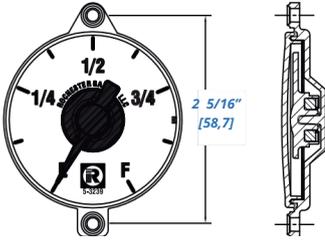
E. & O.E. ©Rochester Sensors.

Since the suitability of these products depends upon a wide range of factors not in our control, Rochester Sensors expects and understands that you will conduct the testing and evaluation necessary to determine that these products are suitable for your application. Whilst every effort is made to ensure the above details are correct at the time of printing, Rochester Sensors reserves the right to make material changes, and or technical changes without notification.

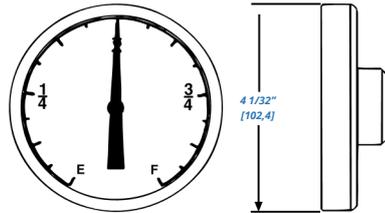
Sr. TwinSite® Sender



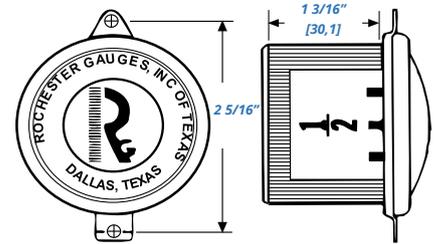
**# 5AWLS03239 or # 5AWMS03239
Sr. Direct-Reading Dial**



**# 5013S00456
4" Dial**



**# 5025S00570
Sr. Side-Reading Dial**



Note: This dial is used in conjunction with 93-2 mounting bracket and 39-2 bezel.

General Specifications*

Accuracy

Accuracy depends upon proper gauge sizing. Senior dials ±6%, TwinSite® dials ±10%. Accuracy may be less depending upon tank shape. Accuracy may be less near full and empty. Accuracy may be less if tank is not level. All accuracy estimates are expressed as a percent of full scale. **CAUTION:** This gauge is not a substitute for an automatic over-fill prevention device, which may be required for filling. This gauge is not to be used as an unattended means of determining tank overfilling. This document does not provide instructions for tank filling. Periodic operability checks may be required which are necessary to detect gauge malfunctions and/or inaccurate gauge readings. Gauge accuracy depends upon proper gauge sizing and installation. Release of tank contents as well as damage and safety hazard may result if tank is overfilled. Fuel exhaustion may occur if tank contents are less than indicated.

Temperature Range

-40°F to +158°F, -40°C to 70°C.

Humidity

Paint exposed portions of gauge, less dial, for marine applications.

Shock & Vibration

Suitable for mobile applications.

Power

0.5 watts maximum for TwinSite® versions.

Tank Pressure

Up to 25 psig [1,7 Bar]

Approvals

These direct indicating gauges 6560 and 6580 are UL listed for flammable liquids. Some models UL recognized for marine service.

Note: For installation instructions see MS-501/502 (Non-Pressurized Fuel Tanks).

Materials of Construction*

Head

Die cast aluminium.

Centershaft, Support Tube & Float Rod

Tempered aluminum.

Gears, Cross Stud & Bearings

Stainless Steel.

Drive Magnet

Alnico.

Gear Housing

Acetal plastic or aluminum.

Float

Nitrile rubber

Gasket

Buna-N, 0015-00004 or 0015-00079

Direct Reading

Polycarbonate or polyamide ultrasonically sealed.

Side Reading

Aluminum with polycarbonate crystal, hermetically sealed.

TwinSite® Sender

Polyamide.

Mounting Bolts

Zinc-plated steel ¼ "-28 x 9/16" long.

When ordering, specify:

1. Gauge model number.
2. Tank diameter and riser height.
3. Mounting location.
4. Ohm range on Twinsite® versions.
5. Preferred switch on switch gauges, if other than standard.
6. Any listed options or preferences.

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