



# Magnetic Liquid-Level Gauge

## Applications

The 8700 series gauges are used to measure water levels in all types of low-pressure, non-heated systems. Ideal for boats, recreational vehicles, campers, etc. NOTE: For hot or pressurized water service, see 8400 Series.

## General Information & Features

The magnetic construction permits the complete sealing off the inside liquid from the outside gauge head and dial allowing quick dial replacement without the loss of liquid or time.

The dial pointer is silicone-dampened. All dials, and switches instantly replaceable – there are just two screws to remove and replace.

The rugged gear drive is standard with shrouded, stainless steel, beveled gears designed to shed and work out any loose particles that might jam the gear action. All materials have been selected to provide outstanding durability in water-gauging applications. Sealing between the gauge and the tank is achieved through the use of the 0015-00423 Buna-N gasket.

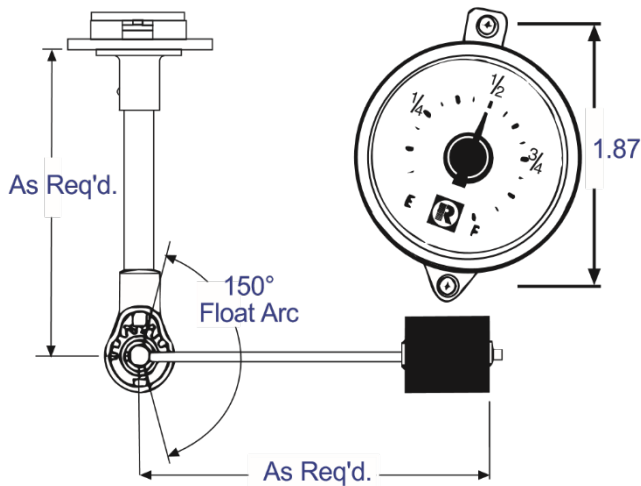
Model #	Magnet	Available Dial
8741	Large Alnico	Direct-reading dial or TwinSite® sender. Choice of 0-30, 0-90, 240-30 ohms.
8781	Small Alnico	Direct-reading dial only.



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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.

## Standard direct-reading gauge with 5323S01792 dial



### General Specifications\*

#### **Mounting**

Recommended for top mounting only.

#### **Accuracy**

Accuracy depends upon gauge sizing. Junior dials  $\pm 6\%$ , TwinSite®  $\pm 10\%$ . 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. This gauge is not to be used for filling. All accuracy estimates are expressed as a percent of full scale.

#### **Temperature Range**

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

#### **Shock & Vibration**

Suitable for mobile, off-road medium duty and marine applications.

#### **Power**

0.5 watts maximum for TwinSite® versions.

#### **Tank Pressure**

0 to 10 psig [0 to 0, 68 Bar].

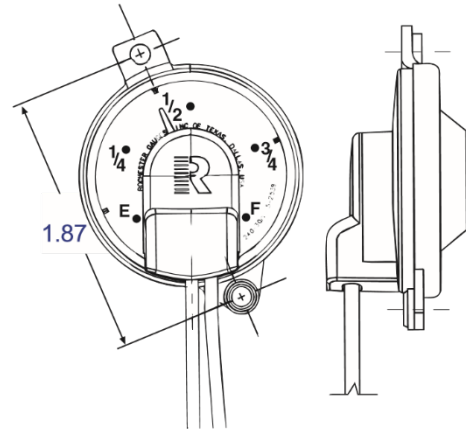
#### **Approvals**

UL recognized for marine water service.

### When ordering, specify:

1. Gauge model number.
2. Tank depth.
3. Float orientation, 3 o'clock standard.
4. Details of any optional features.

## TwinSite® Dial, 0-30 ohms, 0-90 ohms & 240-30 ohms



Part #	Description	Ohms
P5632S02539	Wire Leads	24-30
P5712S02539	.250 Male Tab	
P5807S02626	Wire Leads	0-90
P5764S02611	.250 Male Tab	0-30

#### **Head**

Lightweight injection molded polyester SAE gasoline gauge flange (2 1/8" [54] bolt circle for five #10 screws not furnished).

#### **Centershaft, Support & Float Rod**

Brass.

#### **Gears, Cross Stud & Bearings**

Stainless steel.

#### **Drive Magnet**

Plated Alnico.

#### **Gearing Housing**

Acetal.

#### **Float**

Nitrile rubber.

#### **Gasket**

Buna-N, 0015-00423.

#### **Direct Reading Dial**

Hermetically sealed polycarbonate.

#### **TwinSite® Dial**

Polyamide.

#### **Dial Screws**

Plastite 0040-00479.