



**ROCHESTER
GAUGES, INC.**

ISO 9001:2008 CERTIFIED

Advanced Matrix Film TwinSite™ For Industrial Applications

TS010

Application

The TwinSite® is a magnetically-driven, variable-resistance sender with potted lead wires. Senders are utilized on mobile applications where direct reading plus an electrical signal to a remote receiver are required. Models are available to fit all Rochester Junior® or Senior®, liquid-level gauges equipped with our large Alnico drive magnet.

General Information & Features

This 2-wire TwinSite® sender employs a laser trimmed, advanced matrix resistance element. The TwinSite® is capable of generating accurate and reliable signals to remote receivers in most common resistance ranges with infinite resolution (see the back side for the technical specifications). The standard model of this TwinSite® comes with the premium harsh environment construction at the price of the previous standard unit.

The dedicated ground path terminal wire eliminates the major reliability fault found in most variable resistance sender designs.

Redundant wiper and collector contacts are used to improve reliability and reduce contact noise. In testing, this unit has greatly surpassed the competitive units in reliability and durability.

The TwinSite® also provides the easiest to read local indication of any TwinSite® sender Rochester has produced. The bright, user friendly dial face is divided into fractional units.

The case is hermetically sealed by ultrasonic heating to melt and fuse the case into one solid piece. This keeps weather out, ensuring “no-fog” readability while greatly extending mechanical life. The seal is a high reliability, no-gasket design. The plastic case is capable of withstanding vibration and shock that would render comparable metal designs useless.

The plastic case is far more resistant to corrosion than any metal-cased version and is capable of withstanding broad variations in temperature. The plastic lens (and the rest of the case) is a special, UV stabilized material.

Electrical connections are sealed with multiple epoxy chambers. The connecting wires are also sealed behind this epoxy barrier. This sealing process prevents sparks or other damage due to both galvanic and electrolytic corrosion, as well as, providing an impervious barrier to road salt.

The sender is mounted onto the Rochester Junior® gauge with #0040-00416 stainless steel dial screws (6 — 32 x 5/16"). An additional item available to ensure weatherproof connections from the TwinSite® to the receiver is heat shrink solder sleeves part number 0025-00495.



U.S. & Foreign Patents

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

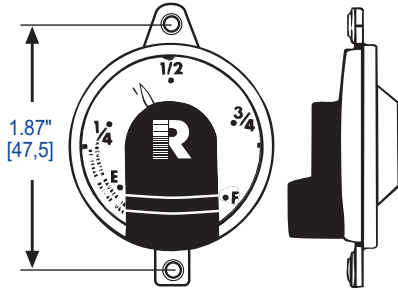
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The Measure of Excellence

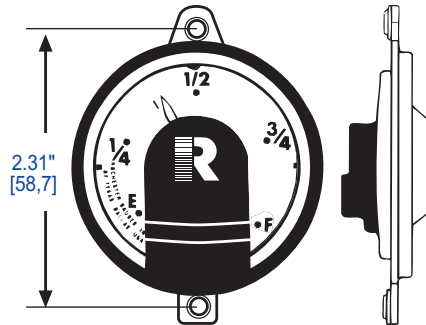
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[METRIC]



Jr.™ Screw-On Mount



Sr.™ Screw-On Mount

General Specifications*

Operating Temperature Range

-40°F to 158°F, -40C to 70C.

Power

0.5 watts maximum.

Accuracy

±5% for all types.

Hysteresis

Less than 5% typical, not vibrated.

Repeatability

±2%.

Resolution

Infinite.

Resistance Change With Temperature

0° to ±100° PPM/C.

Vibration

Tested for mobile applications, including off highway construction equipment.

When ordering, specify:

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

Note: For installation instructions see DS-923 (data sheet).

Materials of Construction*

Crystal & Case

Polycarbonate or polyamide.

Pointer

Acetal.

Magnet

Alnico.

Contact and Contact Spring

Proprietary multi-fingered construction.

Resistance Element

Proprietary advanced matrix film.

Dial

Painted aluminum.

Connector Options

- Packard
- Sure-seal
- Deutsch
- 0.25" male tab

How To Order

Range †	Jr.™ Sender #	Sr.™ Sender #
0-30Ω	IP5668S02544	IP5642S02544
0-90Ω	IP5677S02556	IP5675S02556
240-30Ω	IP5632S02539	IP5640S02543

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

† Other ranges available including 2 & 3 wire voltage output.
Contact Rochester for more information.

Fits models 6741 & 8741.

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