ROCHESTER GAUGES, INC.

Advanced Heavy Duty TwinSite™ For LP Gas Service

TS011

ISO 9001:2008 CERTIFIED

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 fuel level indicator are required. Models are available to fit all Rochester Junior™, liquid-level gauges equipped with our large Alnico drive magnet.

U.S. & Foreign Patents

General Information & Features

This 2-wire TwinSite™ sender employs a laser trimmed, advanced heavy duty resistance element. The TwinSite™ is capable of generating accurate and reliable signals to remote receivers in most common resistance ranges (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 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 ⅜"). An additional item available to ensure weatherproof connections from the TwinSite™ to the receiver is heat shrink solder sleeves part number 0025-00495.

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

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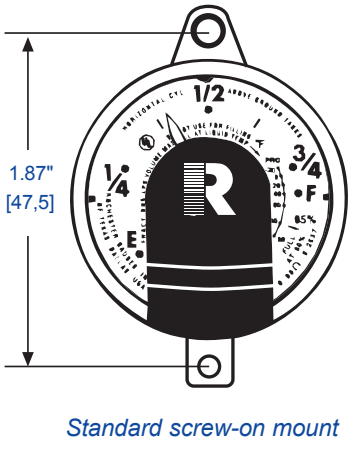
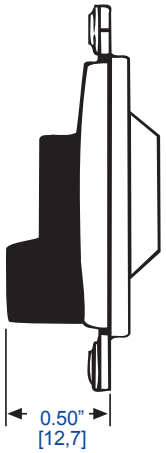
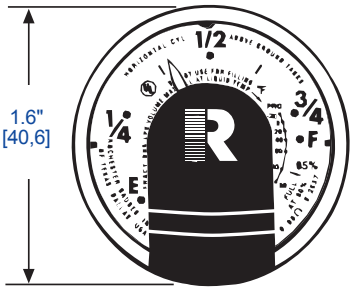
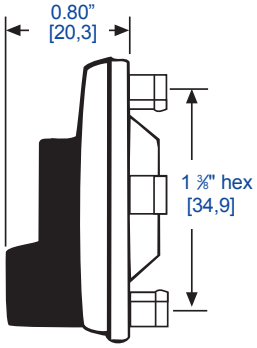
[METRIC]





Standard screw-on mount





Standard snap-on mount

General Specifications*

Operating Temperature
-40°C to 80°C (-40°F to 176°F).

Power
0.5 watts maximum.

Maximum Current
100 mA

Accuracy
±5% for all types.

Hysteresis
Less than 5% typical.

Repeatability
±2%.

Resolution
2% - Typical.

Resistance Change With Temperature
±100 PPM/C.

Vibration
Tested for mobile applications.

When ordering, specify:

1. Junior or Snap-On.
2. OHMs at 'E'.
3. OHMs at 'F'.
4. Any options or part number.

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

Materials of Construction*

Crystal & Case
Polycarbonate.

Pointer
Acetal.

Magnet
Neodymium.

Contact & Contact Spring
Proprietary multi-fingered construction.

Resistance Element
Proprietary conductive ink.

Dial
Painted aluminum.

How To Order**

Range*	Sender*	Notes
0-30Ω	P5644S02851	–
0-90Ω	P5628S02537	Old GM

* Materials and specifications are subject to change without notice.
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.

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ROCHESTER GAUGES, INC.

The Measure of Excellence

11616 Harry Hines Blvd. • P.O. Box 29242 • Dallas, TX 75229 • (972) 241-2161 • *FAX* (972) 620-3374
Website http://www.rochestergauges.com • ***E-mail*** info@rochestergauges.com