



**ROCHESTER  
GAUGES, INC.**

## Refrigerant Gauges

**HM8443  
Series**

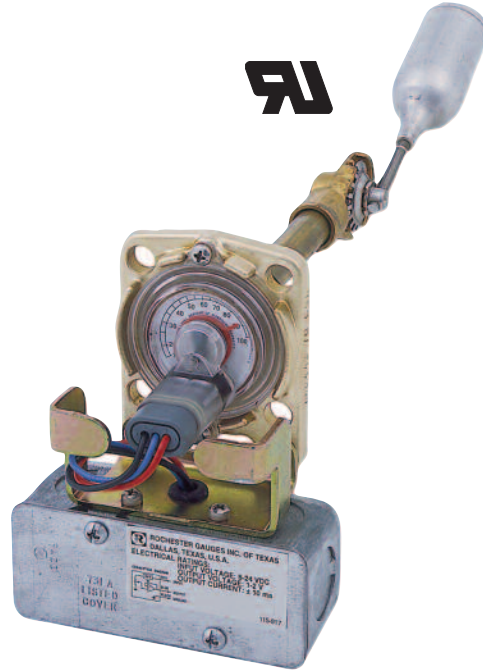
ISO 9001:2008 CERTIFIED

**Refrigerant Gauges**

### Application

The HM8443-00028 switchgauge is designed for side mounting at the centerline in refrigerant vessels where low refrigerant level protection is required. It provides a relay circuit that closes at one of five user-selectable levels from 10% to 50% of pumpdown capacity. This relay circuit can be used to drive a variety of lights, alarms, pumps and other things. The EZ Read TwinSite™ sender mounted on the gauge also provides a direct reading of the refrigerant level in percent pumpdown capacity.

Other versions of the HM8443 series side mounted refrigerant level gauges are equipped with proportional voltage output or voltage output TwinSite™ sender capsules with ranges of 1-2 volts, 1-6 volts or 0-10K ohms. They interface with various microprocessor based controllers now being used in commercial/supermarket applications for continuous, repeatable measurement of refrigerant levels and rates of loss.



### General Information & Features

These gauges feature a 4-bolt brass head that accommodates the direct-attachment of a 4" steel-junction box on the switch gauge, or a 1 5/8" x 3 3/4" steel junction box on all other models. All gauge components are fully compatible with most refrigerants and lubricants.

The gauge float drives an Alnico magnet which couples with another magnet in the TwinSite™ sender. Thus, the sender can be removed and replaced, if necessary, utilizing two small mounting screws, without evacuating the tank.

The TwinSite™ sender uses highly reliable and accurate, voltage divider technology to send the level signal to the level-alarm relay circuitry. It includes an advanced matrix film element in conjunction with a multi-fingered contact to ensure repeatability and reliability. The connector built into the TwinSite™ sender mates with a standard Packard automotive-type rubber sealed connector for easy installation and watertight connections.

The TwinSite™ sender case and lens are made of polycarbonate, and are ultrasonically welded together to obtain a hermetic seal.

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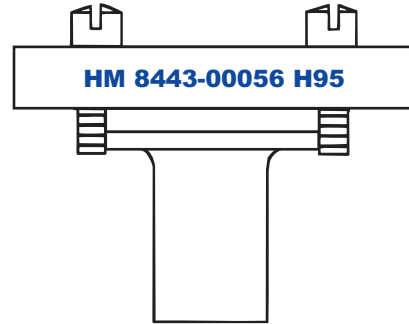
See reverse side for dimensional data, materials of construction, performance, and advice on how to order.

*The Measure of Excellence*

# HM8443 Series Refrigerant Gauges

[METRIC]

Model #	Output	Tank Depth
HM8443-00028	Relay	10 3/4"
HM8443-00049	0-10K Ohm	10"
HM8443-00050		12"
HM8443-00051		14"
HM8443-00052		10"
HM8443-00056	1-6 Volt	12"
HM8443-00057		14"
HM8443-00058		10"
HM8443-00053	1-2 Volt	12"
HM8443-00054		14"
HM8443-00055		10"



Typical gauge head, minus TwinSite™ sender, showing part number and date code stamped on flats.

## General Specifications\*

### Temperatures

Standard range is -40°F to 158°F, -40 to 70C.

### Mounting

Rochester Senior™ adapter (typically part # 0022-05200).

### Power Rating

5 amps, 240 VAC max (relay output only).

### Voltage Input

110 or 220 VAC (relay output) others 24 VDC maximum.

### Working Pressure

450 psig [31 Bar].

### Approvals

UL recognized refrigeration component.

## When ordering, specify:

1. Complete part number of gauge required (see above).
2. For replacement gauges, information stamped on the gauge head (see example below).
3. Part number of gasket desired.

## Materials of Construction\*

### Head

Brass forging

### Junction Boxes & Covers

Plated steel

### Centershaft, Centershaft Bearings, Pinion & Sector Gears, Cross Stud & Bearing

Stainless steel

### Gear Housing

Brass forging

### Support

Brass

### Float Rod

Tempered aluminum

### Float Bulb

One-piece aluminum

### Magnet

Alnico

### TwinSite™ Sender

Polycarbonate, ultrasonically welded and hermetically sealed.

### Mounting Bolts & Dial Screws

Stainless steel

### Gasket

<b>Choice of:</b>	Neoprene	0015-00836 (standard)
	Buna-N	0015-00004
	Viton	0015-00415

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

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