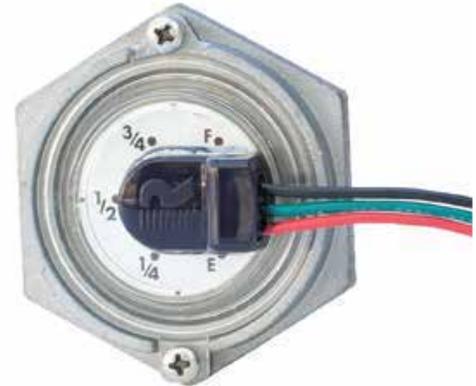


FUEL GAUGE ACCESSORY

APPLICATION

The OmniMetrix Fuel Gauge Accessory (OFGA) is designed for use in measuring liquid levels in hydraulic, lubricating or fuel-oil storage tanks, and gasoline and diesel fuel levels in stationary, standby and mobile generators.

The OFGA is a magnetically-driven, Hall Effect, voltage output sender with potted lead wires. Senders are utilized on stationary and mobile applications where direct reading plus an electrical signal to a remote fuel level monitor are required.



GENERAL INFORMATION & FEATURES

All gauges have a 1½" NPT tank connection and are suitable for tank pressures up to 25 psig maximum. They are designed for top mounting tanks up to 36" deep and some models are UL listed for flammable liquids.

A magnetic drive allows a signal from the float mechanism inside the tank to be transmitted through a solid, non-magnetic bulkhead without the necessity of dynamic seals or pressure-type conductors.

The magnetic connection of the Hall Effect sensor is more reliable than systems that depend on the sliding contact of variable resistor devices. There is no sliding wiper contact, and it is compatible with existing gauges equipped with weak drive magnets within the tank. The OFGA is advantageous in that it can be used as a retrofit on these tanks to provide an electrical output which can be utilized for remote monitoring of tank levels. With remote monitoring of tank levels, customers will be able to more efficiently monitor their liquid level usage.

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

The case is hermetically sealed by ultrasonic welding to melt and fuse the case into one solid piece. This keeps weather out, ensuring "no-fog" readability while greatly extending mechanical life. This Ultra Sonic weld process is highly reliable. The plastic case is capable of withstanding vibration and shock that would render comparable metal designs useless.

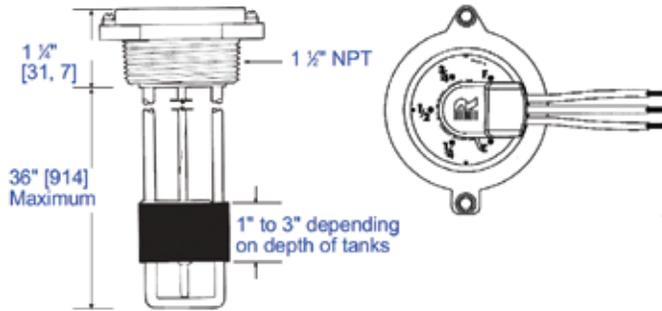
The plastic case is far more resistant to corrosion than any metal-cased version and is capable of withstanding broad variations in temperature. The plastic lens (and the rest of the case) is a special, chemical resistant material.

Electrical connections are sealed with redundant epoxy chambers. The connecting wires are also sealed behind this epoxy barrier. This sealing process presents an impervious barrier to water.



FUEL GAUGE ACCESSORY

STANDARD CONSTRUCTION



GENERAL SPECIFICATIONS*

MOUNTING:

Designed for top-mounting only

TEMPERATURE:

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

HUMIDITY:

Exposed portion should be painted for marine applications, less dial

SHOCK:

Shorter sizes are suitable for some mobile, off-road applications

VIBRATION:

Shorter sizes are suitable for some mobile, off-road applications

TANK PRESSURE:

0 - 25 psig [0 - 1, 7 Bar] maximum

ACCURACY:

±1 1/2 % at E, ±2% at 20%, and ±3% at higher graduations

See DS-1371

HYSTERESIS:

Less than 1% typical

REPEATABILITY:

±1%

OPP. RANGE:

8-32 vdc

OUTPUT VOLTAGE:

E=0.5V F=4.5V

RESOLUTION:

Infinite

MATERIALS OF CONSTRUCTION*

HEAD:

Die-cast zinc

GUIDE ROD:

Zinc-plated steel

CENTERSHAFT:

Brass

TIE PLATE, GUIDE & BEARING PIN:

Stainless steel

FLOAT:

Nitrile rubber

DRIVE MAGNET:

Alnico

CRYSTAL & CASE:

Proprietary copolymer, ultrasonically sealed

DIAL:

Painted Aluminum

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

WHEN ORDERING, SPECIFY:

- Tank height.
- Riser height, if any.
- Any special requirements.

