

Model 4460 Meter-Registers



Model 4460

For delivery rates between 8 and 40 GPM; 30 and 151 LPM.

- High Capacity
- Heavy Duty
- Accurate
- For gasoline, diesel or kerosene
- U.S. gallons and tenths, or
- Imperial gallons and tenths, or
- Liters and tenths

This is the high-speed, high-capacity, heavy-duty meter register for individual deliveries of gasoline, diesel or kerosene that is flowing at high rates: up to 40 GPM (151 LPM), and pressures up to 50 psi (3.5 kg/cm²). Calibrated accuracy is 1/2% of registration at full flow.

The Model 4460 utilizes a nutating disc type meter. It is operated solely by the liquid passing through it, and requires no external power. The meter can be mounted in any position without affecting its accuracy. It consists of a brass measuring chamber which holds the center of the aluminum nutating disc in a ball-and-socket hub arrangement. This measuring chamber is precisely positioned in the meter's cast iron housing.

Field Recalibration

These meters will accurately measure liquids with viscosities less than 120 SSU (60°F) at flow rates up to 40 GPM (151 LPM) and at pressures up to 50 psi. They are for consumer use only.

Factory calibrated accuracy is 1/2% of registration or better, at full flow. If changing conditions require that the meter be calibrated, a needle valve is provided for this purpose. Step by step instructions are given in the parts list, available on request.

Model 4460 Features and Benefits

How it Operates

The fuel to be measured enters the meter at one side and passes freely through the measuring chamber in a corkscrew path. As it passes, it causes the disc to nutate so that the pin in the ball hub describes a circle. The tip of this pin drives the gear train that, in turn, drives the register mechanism at a rate that is proportional to the volume passing through the meter. For this meter, we have engineered gear trains for gasoline in U.S. gallons and tenths, imperial gallons and tenths, and liters and tenths; and others for diesel and/or kerosene in U.S. gallons and tenths, Imperial gallons and tenths, and liters and tenths.

Piping Arrangements

The meter body can be arranged at the factory for installation in either vertical or horizontal piping runs. Inlet and outlet are always 180° apart. Specify if inlet should be at 12, 3, 6, or 9 o'clock as you face the register.

- Mounting position will not affect the meter's accuracy.
- Inlet and outlet are 1-1/2" NPT.

Approvals: UL listed.

Readout: Four digits, on individual register wheels. Digits are 3/8" high, white on black. Tenths are black on white.

Maximum per delivery: 999.9 units.

Setback between deliveries: Front panel pushbutton, single push resets all digits to zeros.

Totalizer: Seven digits, on individual register wheels, non-resettable. Digits are 3/16" high, white on black. Tenths are black on white. Totalizes to 999999.9, then starts over.

Flow rate: 8 to 40 GPM (30 to 151 LPM).

Non-retail use only: For private consumer use only, not weights and measures sealable for retail applications.

Accuracy: 1/2% of registration at full flow.

Maximum working pressure: 50 psi (3.5 kg/cm²).

Operating temperature range: 40°F to 120°F (-40°C to 50°C).

Pressure drop: 6.7 psi @ 40 GPM (0.47kg/cm² @ 151 LPM).

Meter type: Nutating disc.

Meter measuring chamber material: Cast brass.

Meter disc material: Aluminum.

Meter housing material: Cast iron.

Stuffing box: Double O-ring design

Drive gear materials: Molded nylon and Delrin®.

Finish: Red urethane coating. Register bezel is anodized aluminum.

Inlet and outlet sizes: 1-1/2" NPT.

WARNING

Failure to follow these instructions may result in property damage, personal injury, or loss of life. Gasboy products must be installed by a qualified installer and used in conformance with all building, fire, and environmental codes and other safety requirements applicable to its installation and use, including but not limited to, NFPA 30, 30A, 70, and 395. This product is only part of a fuel dispensing system and additional equipment and accessories, such as, but not limited to, breakaway connectors, shear valves, pressure regulators and other safety devices may be necessary to meet the applicable codes. Qualified installers shall be familiar with fuel system installations under the above stated codes and other safety requirements required for the particular type of installation. This product should not be used for pumping fuel or other liquids into aircraft, and is not recommended where sanitary design is required (for food products for human consumption) or for use with water-based liquids. All sales subject to Gasboy standard warranty.



Model 4460 Rear View

