



GUIDANT

Sening® CM3

Portable turbine check meter



CM3 Advantages

The CM3 is a portable turbine check meter that enables economical and simple-to-use measurement of liquid products. The CM3 is used on direct discharge tank trucks to easily determine the delivered volume. As a result, you no longer need to discharge complete compartments—instead, you can check the discharged quantity to react to the demands of specific situations.

The ergonomic design of the CM3 is simple, convenient, and easy to use. It uses an in-line connection between the tank truck's product coupling and the discharge hose. It also features a robust membrane keypad and a large display to make reading easy.

The large 3-inch (DN80) diameter and a high-efficiency turbine design keep pressure loss to a minimum and discharge flow rates high.

The CM3 was developed from customers' need to fit their exact requirements. Its low weight and space-saving, compact design make the CM3 easy to handle, operate, and store.

The intrinsically safe electronics are approved for use in explosion-proof areas (Zone 1). The CE mark conforms to European Economic Area (EEA) regulations for electromagnetic compatibility (EMC).

Benefits

- More flexible route planning
- Simple handling
- Low weight and compact design
- Minimal pressure drop
- Versatile modular system to achieve different flow rates



Principle of Operation

The fluid passing through the meter rotates the measurement turbine. The number of revolutions of the rotor is proportional to the throughput. The rotation of the turbine blades is detected by a noncontact magnetic sensor. These signals are interpreted by the meter's electronics and displayed on the user interface. The flow rate and the total discharged volume in liters are displayed. Before starting to measure, the volume value is reset to zero by the touch of a button. The device also has a non-resettable accumulative totalizer. The CM3 is a check meter developed for measurements that are not subject to any weight and measure certification or custody-transfer applications.

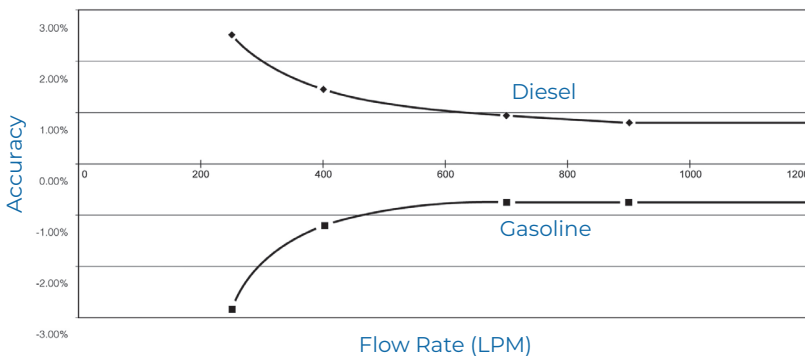
Storage and Transport Protection

Special fixtures are available to protect the CM3 when not in use.

Connections

3-inch British Standard Pipe (BSP) thread for standard hose couplings.

CM3 Typical Accuracy with Diesel and Gasoline



Guidant also can supply various metering systems for custody-transfer applications that have been approved by a weight and measures agency.

If you would like more information, please ask your local distributor or contact us directly.

Operating Specifications

Medium

Low viscosity petroleum products (maximum 20 millipascal-seconds (mPa·s))

Flow Rate

- Minimum: 250 liters per minute ((LPM) (66 gallons per minute (GPM))
- Maximum: 2,000 LPM (528 GPM)

Accuracy

In-application average of $\pm 2\%$ of actual flowrate

Operating Temperature

$-20\text{ }^{\circ}\text{C} \pm 60\text{ }^{\circ}\text{C}$ ($-4\text{ }^{\circ}\text{F} \pm 140\text{ }^{\circ}\text{F}$)

Design Pressure

10 bar

Battery Life

More than four years under normal operating conditions

Enclosure Rating

IP65

Explosion Protection

Ex ia IIB T4

Materials of Construction

Aluminum, brass, and stainless steel

Weight

Approximately 7.5 kilograms ((kg) (16.5 pounds (lb))

About Guidant

As the undisputed leader in liquid and gas custody transfer solutions with the largest global install base, Guidant's legacy is built on more than 90 years of expertise, accuracy, reliability, and best-in-class technologies. We are a private company focused on the measurement solutions business, serving emerging and established energy markets across the globe.

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