

Sening[®] Turbine Meter CM3

Benefits

- ▶ More flexible route planning
- ▶ Simple handling
- ▶ Low weight and compact design
- ▶ Minimal pressure drop
- ▶ Intrinsically safe and approved electronics



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 the specific situation.

The ergonomic design enables the CM3 to be simple, convenient, and easy to use. It is an in-line connection between the tank truck's product coupling and the discharge hose. A robust membrane keypad ensures simple use and the large display makes reading easy.

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

The CM3 was developed from customer's 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) and conforms to PN10. The CE stamp conforms to EU regulations for EMC.

Operating Specifications

Medium:	Low viscosity petroleum products (max. 20 m Pas)
Flow Rate:	Minimum: 250 L/min (66 GPM) Maximum: 2000 L/min (528 GPM)
Accuracy:	In application average of $\pm 5\%$ of actual flowrate
Operating Temperature:	$-20^{\circ}\text{C} \pm 60^{\circ}\text{C}$ ($-4^{\circ}\text{F} \pm 140^{\circ}\text{F}$)
Design Pressure:	10 bar
Battery Life:	More than 2 years under normal operating conditions
Enclosure Rating:	IP65
Explosion Protection:	EEx ia IIB T4
Materials of Construction:	Aluminum, brass, stainless steel
Weight:	Approximately 7.5 kg (16.5 lb)

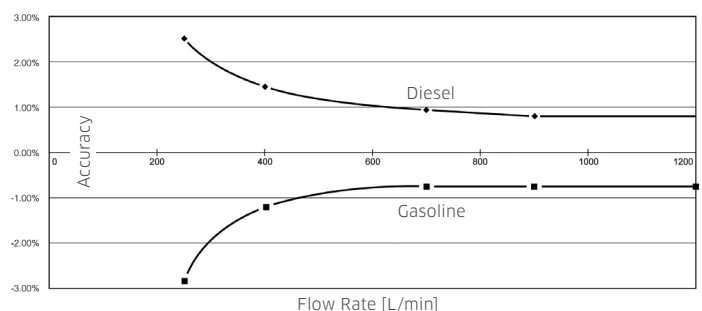
TechnipFMC can also supply various metering systems for custody transfer applications that have been approved by Weight & Measures. If you would like more information, please ask your local distributor or contact us directly.

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Principal of Operation

The fluid passing through the meter allows the measurement turbine to rotate. The number of revolutions of the rotor is proportional to the throughput. The rotation of the turbine blades is detected by a non-contact 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 measurement, 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 and was developed for measurements that are not subject to Weight & Measure certification or custody transfer applications.

CM3 Typical Accuracy with Diesel and Gasoline



Storage and Transport Protection

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

Connections

3" BSP thread for standard hose couplings.

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