

Sening® MultiFlow Electronic Meter Head

Accurate Volumetric Liquid Measurements Made Easy

Sening MultiFlow is an electronic register that delivers exact volumetric measurement by implementing correction factors and compensation tables embedded in its software. Developed per the Organisation Internationale de Métrologie Légale (OIML) directive, the Sening MultiFlow fulfills the legal requirements of the Office of Weights and Measures. MultiFlow is an important part of the Sening tank truck measurement system, which corresponds with the European Measuring Instrument Directive 2004/22/EC (MID).



Features:

- Developed for delivery of heating oil, diesel, kerosene, gasoline, bio fuels, and liquefied petroleum gas (LPG)
- Complements the Sening and Smith Meter measurement systems
- Handles up to 30 products, each with four correction factors
- Operates in English plus two additional languages (Western European, Eastern European, and Cyrillic characters available based on customer needs)
- Offers price entry for measured products invoicing
- Provides optional currency and tax rate configuration
- Stores data for the 100 most recent deliveries
- Controls additive injection by using the Sening additive pump
- Can be expanded with other Sening components using controlled area network-BUS technology (I/O- and/or sensor interface, as well as wireless overfill prevention, and MultiControl remote control)
- Transmits data by open interface using a chip card or via the Sening EMIS interface

The Sening MultiFlow is a state of the art electronic register that incorporates Sening's best practices gained from many years of experience in electronic measurement systems development.

Sening® MultiFlow ChipPlus Package – Integrated Convenience Keeps Delivery Data Current

When using the ChipPlus pack with the Sening MultiFlow, delivery data can be transferred to office software through a conventional chip card. Commercially available hardware and software can be used with a desktop personal computer or laptop to read and write on the memory card.

The Sening MultiFlow ChipPlus pack generates reports in Microsoft Excel and is supported by a wide range of inventory, auditing and accounting commercial software applications, all of which are easily accessible to the operator.

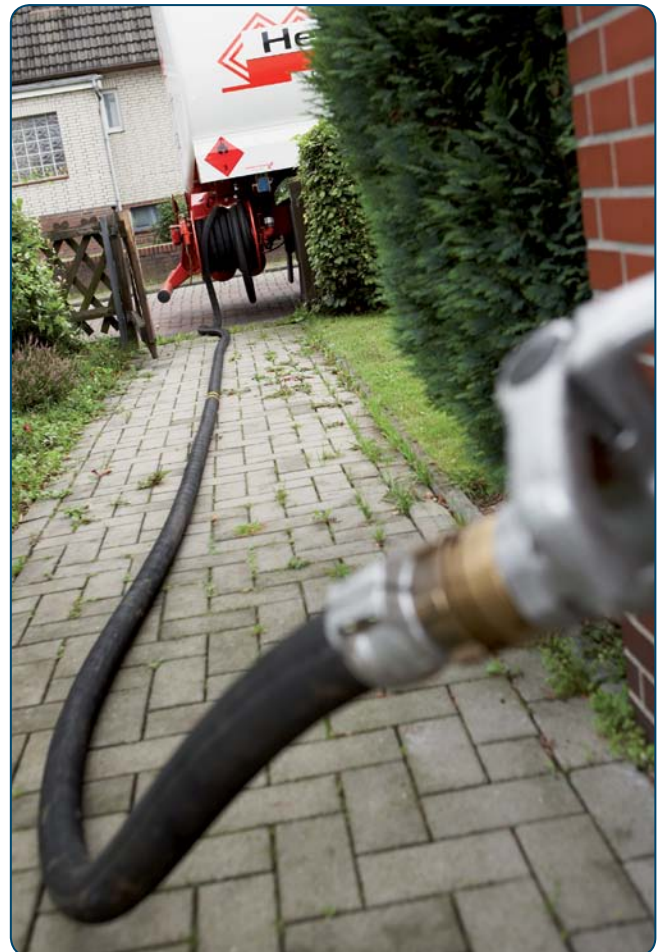


Sening® MultiControl

The intelligent combination of remote control and wireless overfill prevention offers a variety of control and display functions. The actual volume and flow rate are displayed on the MultiControl handheld device. MultiControl supervises the overfill prevention safety functions and allows the implementation of additional functions.

Advantages:

- Saves money and time because all offices have the same data instantly
- Prevents errors generated by manual data entry
- Simplifies data processing through conventional software use
- Reduces paperwork
- Facilitates turnover and inventory reports since data is always current
- Simplifies invoicing by ensuring all business reports are available by end of each business day



Sening® MultiFlow Monitoring

A sensor interface allows MultiFlow to perform additional monitoring functions to reduce product loss. The following truck components can be monitored:

- Manlid
- API coupling
- Foot valve
- Cabinet door
- Line valve

Sening® MultiFlow Input/Output Expansion

An input/output expansion is available for applications that require additional control outputs, such as:

- Selection of multiple additive storage tanks
- More than two discharge hoses
- Others



Technical Data

Electrical Connection:

15 – 30 volts
1.5 A max.

Pulse input:

12 volts, 2-channel encoder
(pnp or npn signal output)

Pulse frequency:

10 kHz max

Outputs:

7, each 12 volts / 500 mA
switch outputs are electronically fused against short circuits

Inputs:

4, intrinsically safe model for switch contacts,
as per Eex ib IIB

Temperature sensor, Pt 100
as per IEC 7511/3 DIN class B

Communication:

RS 232 / RS 485, CAN

Operating temperature:

-25°C to +55°C / -13°F to 131°F

Protection class:

IP65

Dimensions (W x H x D) in mm (inches):

Explosion-proof housing:

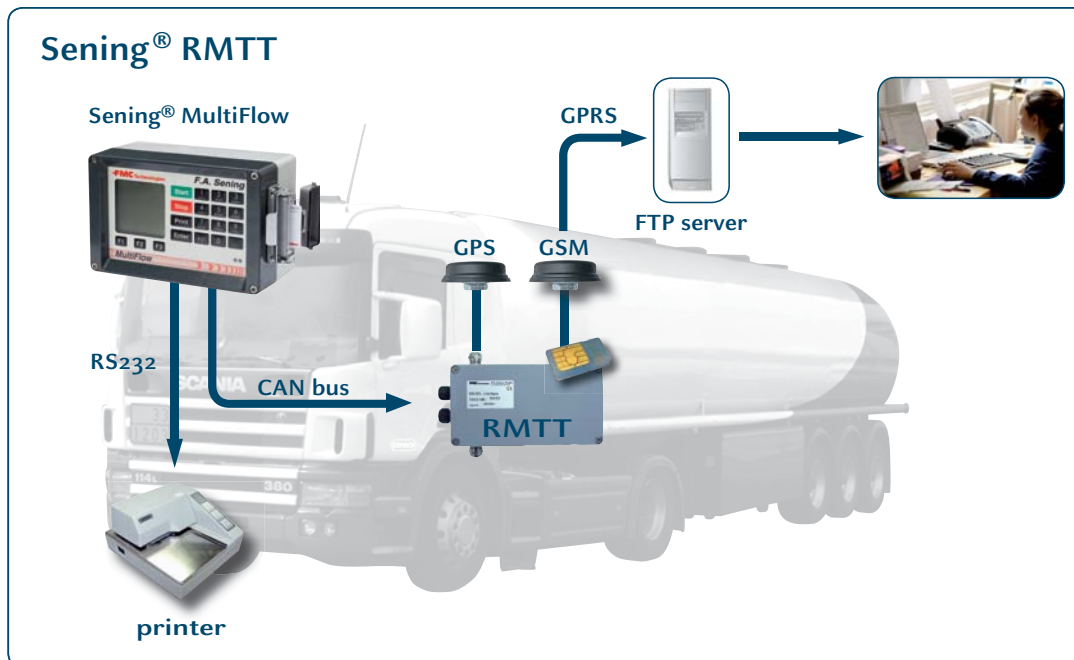
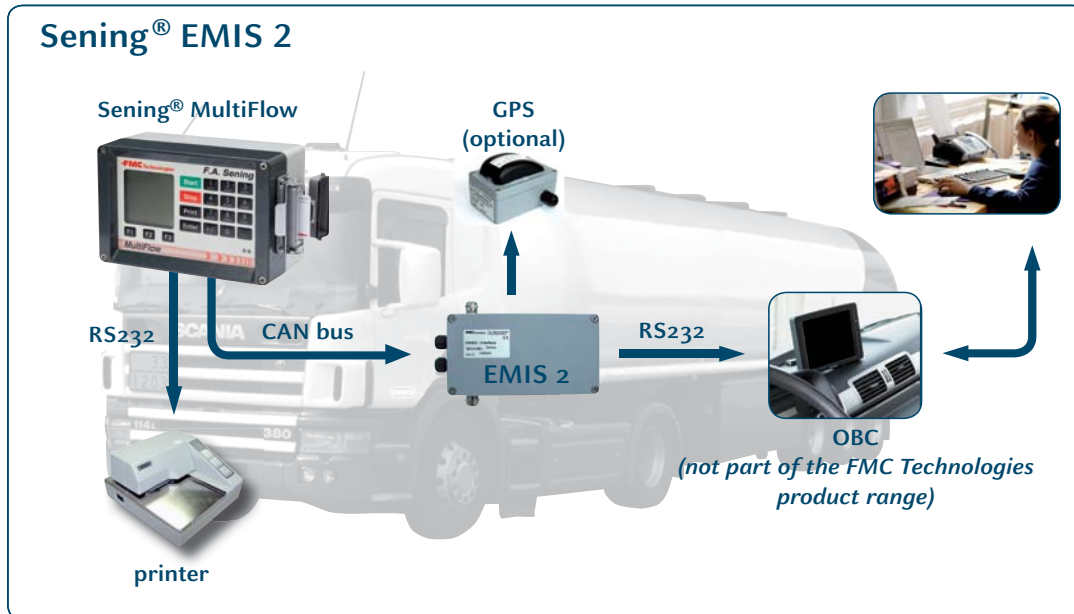
- Display: 240 x 85 x 160 (9.45 x 3.35 x 6.3 inches)
- Main unit: Ø 150 x 275 (5.9 x 10.8 inches)
- Connection socket: 170 x 130 x 90 (6.7 x 5.1 x 3.5 inches)

General purpose enclosure: 240 x 120 x 160
(9.5 x 4.7 x 6.3 inches)

Weight:

Explosion proof enclosure: 12 kg (26.5 lbs)
General purpose enclosure: 4 kg (8.8 lbs)

Sening® Data Communication Modules



**We put you first.
And keep you ahead.**

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