

Purpose

DFM flow meter – accurate tool for direct fuel consumption measurement and operation time monitoring of diesel engines, diesel generators, oil boilers and burners. Goals: monitoring of real fuel consumption; preventing fuel theft; fuel consumption optimization; machine hours accounting.



Fuel flow meter with display



Differential fuel flow meter

Parameters and Counters:

- hourly fuel consumption rate;
- operation by fuel rate;
- fuel temperature;
- total fuel consumption and engine operation time;
- fuel consumption in "Idle", "Optimal", "Overload" modes;
- total fuel consumption – feed and reverse chamber (differential flow meter).
- engine operation time in "Idle", "Optimal", "Overload" modes;
- fuel consumption and operation time in "Tampering" mode;
- operation time in "Interference" mode.

Exceptional features:

- inbuilt battery – data recording without external power supply;
- configuration over Bluetooth;
- inbuilt mud filter – additional protection of measuring chamber;
- Event recognition:
 - cheating (tampering) fuel consumption counter;
 - interference time into operation of flow meter's;
 - high/low level of supply voltage;
 - ignition on/off.
- thermal correction feature.

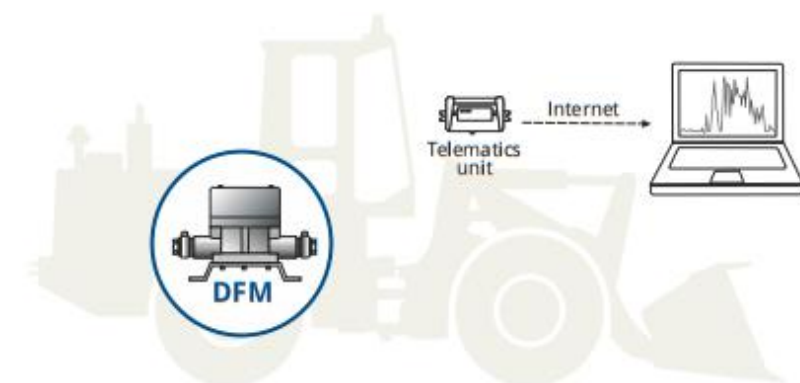


Field of application:

- GPS vehicle tracking;
- industrial monitoring systems;
- engine fuel system diagnostics;
- "predictive maintenance" – technical maintenance according to condition of engine and fuel system.

Machinery:

- tractors, harvesters and other agri- machinery;
- bulldozers, graders and similar road-building machinery;
- special machinery – rig drilling vehicles, steam generation vehicles, etc.;
- railroad machines;
- diesel gensets, boilers, burners.



Models

| Model | One-chamber, l/h | | Differential, in each chamber, l/h | | Electronic interface: |
|---------|------------------|---------------|------------------------------------|---------------|---|
| | MIN fuel rate | MAX fuel rate | MIN fuel rate | MAX fuel rate | |
| DFM 50 | 1 | 50 | – | – | K – normalized pulse 232 – interface RS-232 (DFM COM, Modbus RTU) 485 – interface RS-485 (DFM COM, Modbus RTU) CAN – interface CAN J1939/S6 (SAE J1939, S6, NMEA 2000) |
| DFM 100 | 2 | 100 | 10 | 100 | |
| DFM 250 | 5 | 250/350* | 50 | 250/300* | |
| DFM 500 | 10 | 500/600* | 100 | 500/600* | |

* HP– high performance version, increased MAX fuel rate

Technologies:

