

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

Direct measurement of fuel consumption

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.



Differential fuel flow meter

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:

