

Fuel flow meters

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.





Parameters and Counters:

hourly fuel consumption rate;

operation by fuel rate;

fuel temperature;

total fuel consumption and engine operation time;

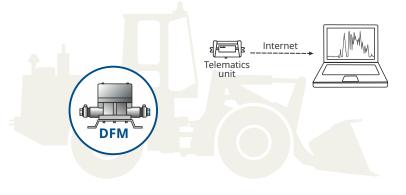
fuel consumption in "Idle", "Optimal", "Overload" modes;

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	
	MIN fuel rate	MAX fuel rate	MIN fuel rate	MAX fuel rate
DFM 50	1	50	-	-
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

Electronic interface:

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)

Technologies:









