



Start-up **FUEL VIEW** in 7 steps

Quick Installation Guide for FUEL-VIEW



FUEL-VIEW is a brandname for DFM series manufactured by JV Technoton CJSC in Belarus. Every DFM flowmeter is fabricated and shipped from factory under stringent quality control. In order to maintain its design performance throughout its life, this Quick Installation Guide offers the operator the minimal necessary installation, operation and maintenance information. Be well familiar with these instructions and read the complete manual before you place the meter in service. You can download, save and print the complete manual (PDF) from <http://www.massflow-online.com/manuals/FUEL-VIEW>

1



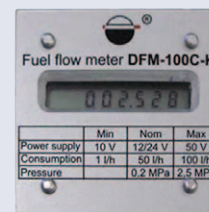
The DFM sensor for diesel fuel consumption is designed to convert the volume of flowing fuel into adequate volume and/or electrical pulses. It is installed in the fuel line of automobiles, tractors and other mobile and stationary machines and units (further – vehicle). Power supply to the DFM is provided by the power supply line of the vehicle

2



Confirm nameplate

Product code and ratings appear on top of the the meter. Make sure that the ratings shown conform to your specifications.



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DFM Installation Order

Most DFM models have an integrated fuel filter (at the inlet in the instrument) but some have an external fuel filter. Be sure the external filter is placed in line before the meter to prevent blocking of the instrument because of mud or impurities. Installation of DFM must include the following main elements:

Vehicle state evaluation.

Before installing the DFM it is necessary to evaluate the state of the vehicle and find out if installation of DFM is possible. Visual inspection of the vehicle includes the following checks:

- Start the engine and check its operation during 5...10 minutes of idle running and during 5...10 minutes of movement under load. The engine must operate evenly, not fade. When under load there must not be any power loss.
- Carry out visual examination of all the fuel pipes to make sure there are no defects or fuel leakage.
- In case of installation of DFM with a pulse output it is necessary to check the voltage of the power supply line of the vehicle with a voltmeter. For vehicles with the power line voltage of 12 V the operating voltage must be not less than 10 V and not more than 18 V. For vehicles with the power supply line voltage of 24 V the operating voltage must be not less than 18 V and not more than 32 V. Prior to DFM installation the customer must eliminate the indicated defects.

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Mounting.

While mounting the DFM, the following rules must be observed:

- The fuel pipes must be properly protected from external destructive impact.
- In case of bending of pipes their internal dimensions must not become smaller.
- Fastening of the fuel pipes on the vehicle must be done by straps every 0,5 m.
- The fuel pipelines must have a certain reserve length to compensate for the temperature change of length.
- It is not recommended to install DFM on elements liable to shaking or heating.
- When connecting the fuel pipelines it is necessary to ensure that the flanges and threaded pipe joints are clean.
- For all types of sealing it is obligatory to use only new copper sealing washers provided in the installation kit.
- The rubber fuel pipelines must be connected to the elements of the fuel system with the help of the angle pieces fastened by clips of appropriate diameter.
- Having completed the installation of DFM it is necessary to deaerate the fuel system.

To measure the fuel consumed by the vehicle it is necessary to ensure that only fuel consumed by the engine passes through the DFM.

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Electrical connection.

Electrical connection is necessary only for the DFM with a signal output (the A-K or C-K models). The electric installation work must be done in conditions with the switched off "ground" or removed storage battery. It is obligatory to connect the "ground" and the DFM power supply in the same places where connection of the electronic data reading block is made



Circuit	Pin	Colour
OUT	1	white
GND	2	brown
VBAT	3	orange

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Performance check.

DFM performance check can be done in the following ways:

- According to the instant fuel consumption readings on the electronic data reading block or the DFM indicator with the engine operating.
- Performance of the DFM having a pulse output can be checked by an even lighting of the LED with the engine operating.

Rotation of the DFM mechanism can be checked by blowing it through with air. In this case a characteristic uniform rustle of the working meter must be heard.

7



Screen selection (LCD models only).

Default, the FUEL-VIEW displays dots on the screen. This is because the meter is in power save (standby) mode. All DFM models with display stay in standby mode unless you 'wake' the meter with the selector magnet. Also switching between screens is carried out through applying the selector magnet to the surface of the meter.



Selector magnet Sleep / standby mode

