Mercetech Innovations Private Limited

Fuel Volume Indicator FVD1-2

Passport

FVD.000-M PS

BASIC INFORMATION

The FVD1-x fuel volume indicator (hereinafter – Indicator) is designed for the collection and analysis of digital data coming from a fuel level sensor (hereinafter – FLS).
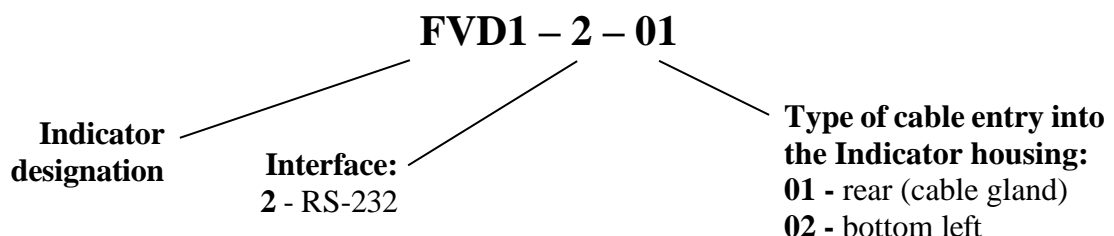
Data transmission is performed by a wired connection via RS-232 interface using the EDE (LLS) protocol with further calculation of the fuel volume value and visual display on a 4-digit LED panel.

The Indicator can work both in passive mode (together with another controller that polls the fuel sensor) and in active mode, providing requests to the sensor independently.

Depending on the set operating mode, the volume is indicated as a percentage of the total volume with a resolution of 0.1% or in units of volume (liters) – with a resolution of 1 ml to 10 liters.

In the last case, depending on the selected scale, which is selected while Indicator configuring, the maximum displayed value is from 9.999 l to 99990 l.

MODEL DESIGNATION

FVD1 – 2 – 01

Indicator designation

Interface:
2 - RS-232

Type of cable entry into the Indicator housing:
01 - rear (cable gland)
02 - bottom left

03 - bottom
right

INSTALLATION

Installation and configuration (setting) of the Indicator is carried out in accordance with the user manual.

Main technical characteristics

Parameter or characteristic name	Unit	Value	Notes
Maximum number of connected FLS	-	1	
Bit depth of input data	bit	10/12/16	
Number of RS-232 ports	-	1	
Number of indication digits	-	4	
Operating temperature range	°C	-40…+75	
Supply voltage, operating range	V	+9…+36	
Current consumption, no more than	mA	30	
Permissible action of pulse voltage on power circuits	V	+60, 1 sec. -1000, long duration	
Operating mode	-	Continuous	
Overall dimensions, no more than	mm	78x40x20	
Weight, no more than	gr.	100	

Indicator cable wire assignment

Wire color	Purpose
Red (brown)	+U
Black	GND
Yellow	TXD
Green (blue)	RXD

DELIVERY SET

Basic delivery set

Name	Q-ty	Notes
Indicator	1	With two attached fastenings
Fuse holder	1	Through, with wire
Fuse	2	SI 0,1 A
Heat shrink tube	1	Ø4/Ø2, length – 20 mm
Passport	1	

Additional documentation and software

Additional documentation and user software are available as an additional order or can be downloaded from the Indicator manufacturer website.

Name	Designation
User manual	FVD.000-M UM
User software	FVD.000 User software

TERMS OF OPERATION

During operation, it is prohibited to use the Indicator for other purposes, to connect the Indicator to devices whose interface does not correspond to the operational documentation, to supply voltage exceeding the limit value of +36 V, or to expose it to aggressive environments.

TRANSPORTATION AND STORAGE

Transportation of the Indicator in the manufacturer's transport packaging is permitted by all types of closed land and sea transport (in railway cars, containers, closed vehicles, holds, etc.). Transportation in sealed compartments of aircraft is allowed.

When transporting Indicators in their original packaging by open transport, measures must be taken to protect them from exposure to precipitation, dust and dirt.

During transportation and storage, the requirements of the handling signs printed on the group transport packaging must be observed.

MANUFACTURER (SUPPLIER) WARRANTY

The warranty period is 12 months from the date of installation of the Indicator. If there is no mark on the installation date in the warranty card, the warranty period is calculated from the date of production by the manufacturer.

The specified warranty obligations are valid if the consumer complies with the requirements of the current operational documentation.

In case of violation of these requirements, or in the presence of traces of exposure to high-voltage electrical voltage, aggressive environments or mechanical damage, the warranty obligations are considered void.

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