Template:FMM640 Accessories

Please order accessories separately as they are not included into device package.

Accessory and its description	Accessory connection schematic
Fuel tank sensors	Fuel sensor connection to FMB640
A fuel tank level sensor which indicates the	×
approximate fuel level on the driver's	
indicator panel exists in most cars. If the	
sensor returns analogue signal proportional	
to fuel level it can be connected to FMB640	
Analog input. After connection to the tank	
fuel level sensor a calibration is needed	
because most fuel tank sensors are not	
linear. Calibration is performed by	
measuring voltage values resulting from the volume of fuel in tank.	
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Alarm buttons, door sensors etc.	Panic button connection to FMB640
Alarm buttons, door sensors, ignition, etc.	×
have two output states: high or low.	
FMB640 Digital inputs are used to detect these states.	
Relays	Inverting relay connection to FMB640
In cases when sensor output signal is	×
negative, an additional relay has to be	
installed to convert negative signal to	
positive.	
Immobilizer relay	Immobilizer relay connection to FMB640 output
When connected as shown on the right	
hand side, FMB640 disables engine starter	e==0
when output is ON.	
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	Starter Motor
Automotive relay	Automotive relay pinout
An ordinary automotive relay is used to	×
invert input signal or to immobilize engine	

An ordinary automotive relay is used to invert input signal or to immobilize engine starter. Note that relays can be 12 V or 24 V capable.

1-Wire devices

Digital thermometer DS1820 and TTJ100 connection to FMB640

One of the implemented features on FMB640 is 1-Wire® data protocol, which enables connection to devices such as thermometer (DS1820, DS18S20 and DS18B20) and I-Button DS1990A.

Impulse counters

Here two pulse meters are used, where one is mounted on the direct flow valve and the other on the return flow valve. Data from both meters is sent to the FMB640. Then FMB640 calculates DIN3-DIN4. Resulting difference equals to fuel consumption. Filter should be used on the direct flow pipe to prevent any damage caused by impurities in the liquid. The filter mounted in the meter inlet is only a safety filter and it is too small to act as a strainer. Read more about impulse counters <u>here</u>

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TTJ sensor pinout

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I-Button DS1990A connection to FMB640

Pulse fuel meters connection scheme