FMC920 Trip/Odometer settings

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Trip Settings

Trip section offers user to configure the *Trip* feature. *Trip* starts when Ignition according *Ignition source* is ON and Movement according *Movement source* is ON and also 'Start Speed' is exceeded. *Start Speed* defines the minimum GPS speed in order to detect *Trip* start.
Ignition OFF Timeout is the timeout value to detect *Trip* end once the Ignition (configured ignition source) is off.
I/O Trip Odometer must be enabled to use *Distance counting mode* feature. When it is set to Continuous, *Trip* distance is going to be counted continuously (from *Trip* start to *Trip* end) and written to I/O *Trip Odometer* value field. When *Trip* is over and the next *Trip* begins, *Trip Odometer* value is reset to zero.
When *Mode* is set to Between Records, the distance is going to be counted between every record made. This value is written to I/O *Trip Odometer* value field and is reset to zero every new record until the *Trip* ends. If later all Odometer values are summed up manually, the distance driven during the whole duration of the *Trip* can be obtained.

Advanced Trip Settings

Advanced trip settings allow configuring a number of *Eco Score allowed Events* per 100 km.
I/O Eco score must be enabled to get the value onto the server. Eco score is dependent on overspeeding, Eco/Green driving (harsh acceleration, braking, cornering), excessive idling and high RPM events (latter one requires OBD BT dongle). If less of parameters/scenarios are activated - it is easier to have higher Eco score. ECO scoring is differentiated by separate Trips.
There are six Eco evaluation events:

- Harsh acceleration.
- Harsh braking.
- Harsh cornering.
- Over-speeding (will only count events with value 1 (start) and ignore value 0 (end)).
- Excessive Idling (will only count events with value 1 (start) and ignore value 0 (end)).
- High RPM.

Eco score value can range from 10 (excellent) to 0.00 (very bad):

- Excellent 8.00 – 10
- Good 6.00 – 7.99
- Not Good 4.00 – 5.99
- Bad 2.00 – 3.99
- Very Bad 0 – 1.99

How Eco score is rated:

- Eallowed - ECO Score Allowed Events
- d - trip distance traveled in KM
- Egen - Total generated events

ECO score calculation example:

Example 1

Example 2

When Total events < 1, we ignore the formula and then Eco Score is equal to 10.
If *Eco Score Allowed Events* value is configured as 0, then Eco score can have only two values: 0 (when total events > 0) or 10 (when total events = 0).
Score is updated every 1 km driven or every 5 minutes of *Trip* duration.
Do not forget to activate "Eco score" in I/O section.
If RPM is enabled under OBD and LVCAN – events will be doubled.

Odometer

Calculation Source allows to choose Odometer calculation source between GNSS, OBD.
Odometer Value sets the starting total odometer value.