

# How to configure Manual CAN Commands?

[Main Page](#) > [E-Mobility Trackers](#) > [TFT100](#) > [TFT100 FAQ](#) > **How to configure Manual CAN Commands?**

## Manual CAN Commands example

**NOTE!** Manual CAN commands can be tested on FW 55.00.09.rev.08 or newer

Information from the protocol example:

- **CAN speed** - 500kbps
- **CAN ID length** - 11bit
- **Data format** - little endian
- **Manual CAN commands** - 8



1. In **CAN I/O** section **Manual CAN** is selected as CAN protocol. No I/O elements in this tab were enabled in this example. This can be done according to user needs.

**Manual CAN Baudrate**

Manual CAN Baudrate (bit/s) 500 k

2. Manual CAN Settings section - **Baudrate** is set to 500 kbps based on example protocol.

3. Scroll down to **Manual CAN Commands** area in the same **Manual CAN Settings** section: From this protocol example, **8 Manual CAN Commands** can be configured (from Manual CAN Command 0 to Manual CAN Command 7 row).

Manual CAN Commands example from this protocol can be seen below:

CAN ID	information	byte	start bit	length	min	max (hex)	scale	offset	eng val min-max	unit	type	comment
Frame 0x600, 8 bytes, sent on event												TELEMETRY
0x600	unlock \ lock the scooter	0	0	8	0	2	1	0	0...2	-	int	0 - no change, 1 - unlock the scooter, 2 - lock the scooter
	open \ close top case	1	0	8	0	2	1	0	0...2	-	int	0 - no change, 1 - close the topcase, 2 - open the topcase

In this protocol example commands are listed in frame **0x600**, we have configured every possible variant of commands based on the picture above.

### 1. **Manual CAN Command 0 Settings:**

CAN Type: **Standard**, CAN ID: **00000600**; Data: **0100000000000000**; Data length: **8 bytes**. This command is configured for **unlock** action. Protocol states that **unlock** command is value

1 and is located on the zero byte of the frame 0x600. So on the zero byte in configurator, Data field, we put in this value: **0100000000000000**.

Manual CAN Command 0 Settings

CAN Type	Standard	CAN ID	00000600	Data	0100000000000000	Data length (bytes)	8	Send Type	Once
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The configured **unlock** command can be initiated by this SMS/GPRS command: `mcan_cmd:0`

## 2. **Manual CAN Command 1 Settings:**

CAN Type: **Standard**, CAN ID: **00000600**; Data: **0200000000000000**; Data length: **8 bytes**. This command is configured for **lock** action. Protocol states that **lock** command is value 2 and is located on the zero byte of the frame 0x600. So on the zero byte in configurator, Data field, we put in this value: **0200000000000000**.

Manual CAN Command 1 Settings

CAN Type	Standard	CAN ID	00000600	Data	0200000000000000	Data length (bytes)	8	Send Type	Once
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The configured **lock** command can be initiated by this SMS/GPRS command: `mcan_cmd:1`

## 3. **Manual CAN Command 2 Settings:**

CAN Type: **Standard**, CAN ID: **00000600**; Data: **0001000000000000**; Data length: **8 bytes**. This command is configured for **close the top case** action. Protocol states that **close the top case** command is value 1 and is located on the first byte of the frame 0x600. So on the first byte in configurator, Data field, we put in this value: **0001000000000000**.

Manual CAN Command 2 Settings

CAN Type	Standard	CAN ID	00000600	Data	0001000000000000	Data length (bytes)	8	Send Type	Once
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The configured **close the top case** command can be initiated by this SMS/GPRS command: `mcan_cmd:2`

## 4. **Manual CAN Command 3 Settings:**

CAN Type: **Standard**, CAN ID: **00000600**; Data: **0002000000000000**; Data length: **8 bytes**. This command is configured for **open the top case** action. Protocol states that **open the top case** command is value 2 and is located on the first byte of the frame 0x600. So on the first byte in configurator, Data field, we put in this value: **0002000000000000**.

Manual CAN Command 3 Settings

CAN Type	Standard	CAN ID	00000600	Data	0002000000000000	Data length (bytes)	8	Send Type	Once
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The configured **open the top case** command can be initiated by this SMS/GPRS command: `mcan_cmd:3`

## 5. **Manual CAN Command 4 Settings:**

CAN Type: **Standard**, CAN ID: **00000600**; Data: **0101000000000000**; Data length: **8 bytes**. This command is configured for **unlock + close the top case** action. Protocol states that **unlock** command is value 1 and is located on the zero byte of the frame 0x600 and **close the top case** command is value 1 and is located on the first byte of the frame 0x600. So by combining these two commands and filling zero and first bytes in configurator, we get a new combined command **unlock + close the top case**. In Data field, we put in this value: **0101000000000000**.

Manual CAN Command 4 Settings

CAN Type	Standard	CAN ID	00000600	Data	0101000000000000	Data length (bytes)	8	Send Type	Once
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The configured **unlock + close the top case** command can be initiated by this SMS/GPRS command: `mcan_cmd:4`

## 6. **Manual CAN Command 5 Settings:**

CAN Type: **Standard**, CAN ID: **00000600**; Data: **0102000000000000**; Data length: **8 bytes**. This command is configured for **unlock + open the top case** action. Protocol states that

**unlock** command is value 1 and is located on the zero byte of the frame 0x600 and **open the top case** command is value 2 and is located on the first byte of the frame 0x600. So by combining these two commands and filling zero and first bytes in configurator, we get a new combined command **unlock + open the top case**. In Data field, we put in this value:  
**0102000000000000.**

Manual CAN Command 5 Settings

CAN Type	Standard	CAN ID	00000600	Data	0102000000000000	Data length (bytes)	8	Send Type	Once
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The configured **unlock + open the top case** command can be initiated by this SMS/GPRS command: `mcan_cmd:5`

#### 7. **Manual CAN Command 6 Settings:**

CAN Type: **Standard**, CAN ID: **00000600**; Data: **0201000000000000**; Data length: **8 bytes**. This command is configured for **lock + close the top case** action. Protocol states that **lock** command is value 2 and is located on the zero byte of the frame 0x600 and **close the top case** command is value 1 and is located on the first byte of the frame 0x600. So by combining these two commands and filling zero and first bytes in configurator, we get a new combined command **lock + close the top case**. In Data field, we put in this value:  
**0201000000000000.**

Manual CAN Command 6 Settings

CAN Type	Standard	CAN ID	00000600	Data	0201000000000000	Data length (bytes)	8	Send Type	Once
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The configured **lock + close the top case** command can be initiated by this SMS/GPRS command: `mcan_cmd:6`

#### 8. **Manual CAN Command 7 Settings:**

CAN Type: **Standard**, CAN ID: **00000600**; Data: **0202000000000000**; Data length: **8 bytes**. This command is configured for **lock + open the top case** action. Protocol states that **lock** command is value 2 and is located on the zero byte of the frame 0x600 and **open the top case** command is value 2 and is located on the first byte of the frame 0x600. So by combining these two commands and filling zero and first bytes in configurator, we get a new combined command **lock + open the top case**. In Data field, we put in this value:  
**0202000000000000.**

Manual CAN Command 7 Settings

CAN Type	Standard	CAN ID	00000600	Data	0202000000000000	Data length (bytes)	8	Send Type	Once
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The configured **lock + open the top case** command can be initiated by this SMS/GPRS command: `mcan_cmd:7`

**NOTE!** Manual CAN Commands are different for each protocol. These instructions are made as an example.