

Set up Tool

User's Manual



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1. Purpose

The Wema NMEA2000 setup tool is used for Wema NMEA2000 gauges and sensors, to give the products their instance and protocol number.

2. Components

Quantity	Item
1	Wema setup tool
1	USB power adapter

3. Connecting

3.1 Connect the setup tool to the product, and connect the USB plug to a power source.



4. Parameters

When you connect the setup tool to a power source it will start in sensor mode (see pic. 1). There are four steps to go through to program your product properly. Please note that all steps are not always used.

See pictures below. Use the UP/DOWN keys to navigate between the modes.

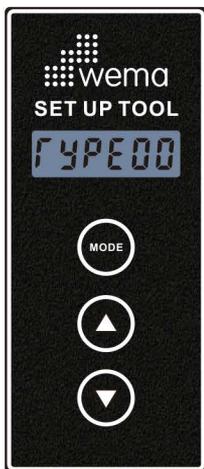


Pic 1

Product type
Start mode

(Page 3)

Step 1



Pic 2

Sub-product type

(Page 4)

Step 2



Pic 3

Instance

(Page 5)

Step 3



Pic 4

Tank volume

(Page 5)

Step 4

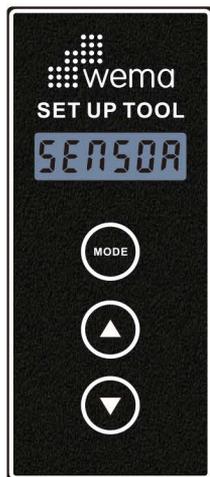
4.1 Step one - Choose product type

In product type mode press MODE key until the LCD screen is flashing and release.

Use the UP/DOWN key to select the product type, (sensor, gauge, or ASC).

When the correct product have been chosen press the MODE key until the LCD stops flashing.

Product type setting is now completed.



Sensor



Gauge



ASC
Converter

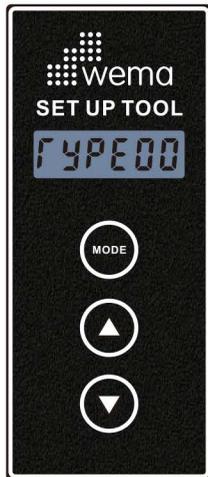
4.2 Step two - Choose sub product type.

In sub-product type mode you programme the product according to the table below. Press the MODE key until the LCD screen is flashing.

Use the UP/DOWN key to choose the sub-product type you would like to use.

Press MODE key until LCD screen stops flashing.

Sub-product type mode is completed.



The values specific to respective product

Sensor		Gauge	
Value	Type	Value	Type
00	Fuel	00	Fuel level gauge
01	Fresh water	01	Water level gauge
02	Waste water	02	Holding tank
03	Live well	03	Pressure gauge
04	Oil pressure	04	Water temperature gauge
05	Black water (Holding tank gauge)	05	Voltage gauge

Sub-product type

4.3 Step three - Choose instance number (if necessary)

Instancing is a way to distinguish between otherwise similar devices in a NMEA2000 network. It's a number that you assign to devices.

As an example, take a system with two fuel sensors (one for the starboard tank and another for the port tank). Both fuel sensors will send their fuel level measurements out on the network. The NMEA2000 protocol goes from port to starboard, so the port tank would be "instance 0" and the starboard tank would be "instance 1".



Instance

In instance mode press the MODE key until LCD screen is flashing, then release.

Use UP/DOWN key to select instance number. When the correct number have been chosen, press the MODE key until LCD screen stops flashing.

The instance setting is now completed.

You only have to define the instance number if you have more than one tank with the same fluid. For example several fuel tanks. In this case you need to give each fuel tank it's own instance number.

4.4 Step four - Set tank volume (optional)

In tank volume mode, press the MODE key until LCD screen is flashing, then release.

Use UP/DOWN keys to set tank volume in litres.

When the correct volume is set, press MODE key until LCD screen stops flashing.

Tank volume setting is now completed.



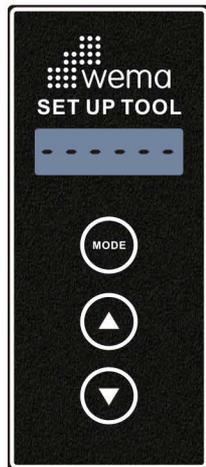
Tank Volume

This function can only be used if you have a square shaped tank.

5. Parameter Sending

Press the MODE key shortly to send the information to the product.

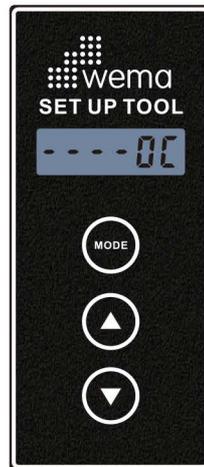
When this is done, the LCD screen will look like the picture below.



Parameter sending

6. Setting completed

When the programming is finished the LCD screen will show "----OC" according to the picture below.



Setting completed