February 2022

Setup Out Going MBE ECU CAN Data Stream

This information is provided free, but if you require further technical support Team Viewer sessions can be provided by our Technicians and these are normally sold in 1 hourly slots. Please contact SBD for current prices.

Please note that we can only provide information & assistance on our MBE devices, NOT on receiving devices.

Ensure your ECU software is up to date, because older software may not show all this information.

Please note:

MBE9A4 & 9A8 ECUs only have one CAN bus, this is set at 500kbit/s to match all MBE devices (it CAN-NOT be changed).

MBE 9A9 & 9A6 ECUs have two CAN bus; CAN1 & CAN2. It is recommended that only MBE devices are connected to CAN1 and *NON MBE devices are connected to CAN 2. The Bus speed of CAN2 can changed and is configurable in Easimap 6.

*Using NON MBE devices on CAN2 gives a few advantages, if the NON MBE device becomes faulty, it will quite often jam the Bus and stop all devices connected to it from working. Also the more devices connected to a Bus the slower everything gets.

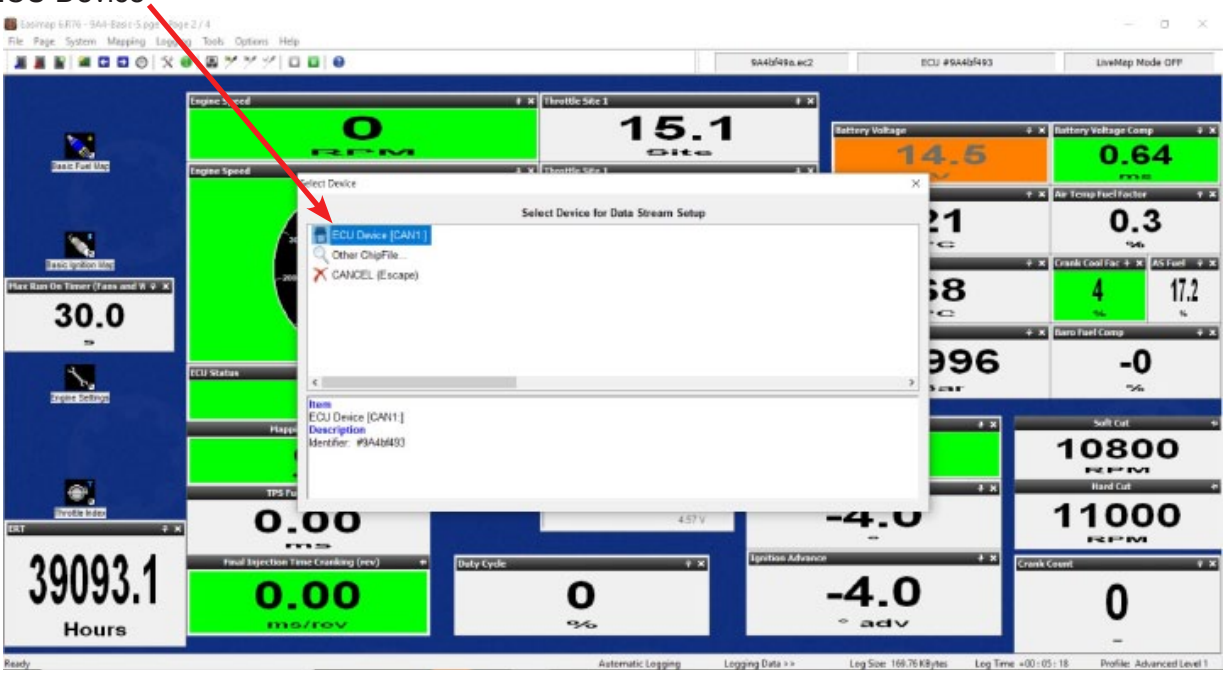
Please note this is quite difficult and we recommend this kind of work is under taken by someone who understands CAN datastream.

Go to ‘System’, select ‘ Setup ECU Data Stream’

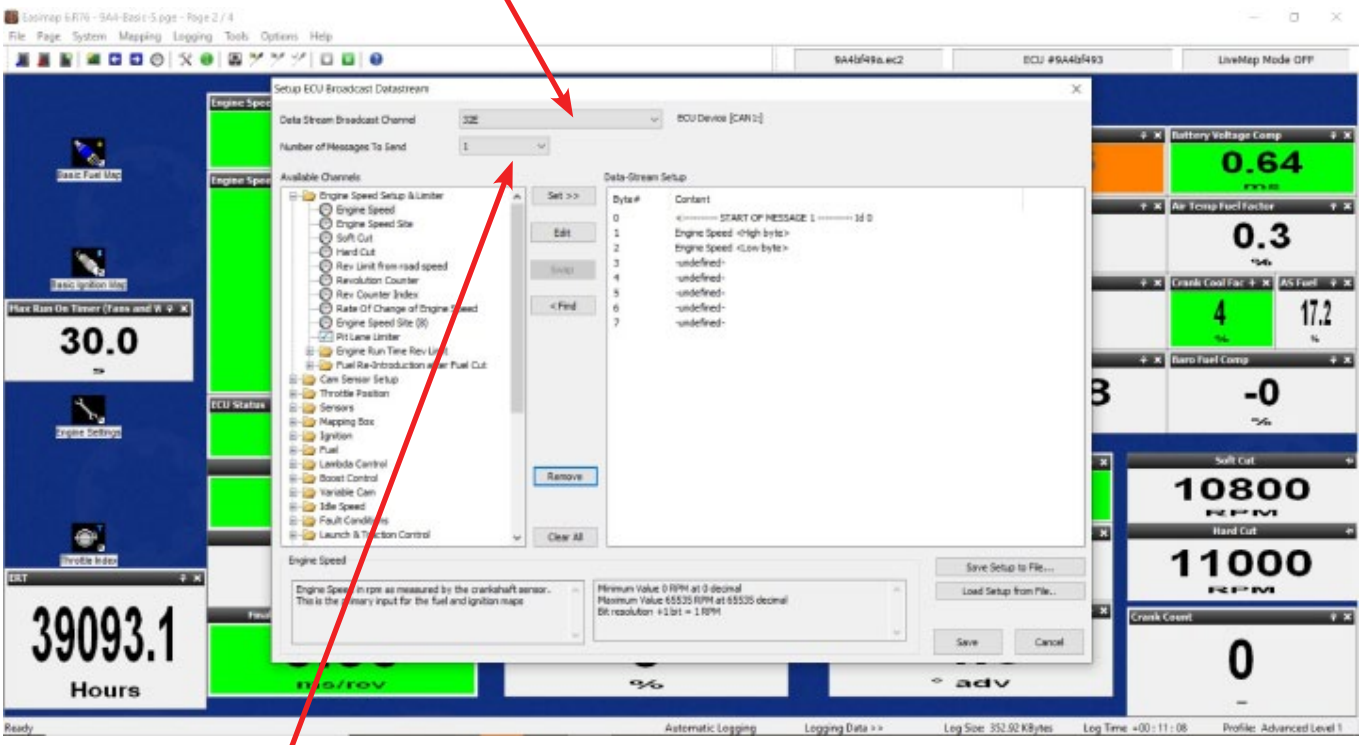
Please note there is an option for ‘CAN Datastream’ in the System dropdown, this is for older devices that have been set up in the past such as most AiM templates.

We recommend you make a copy of the Map in ECU and save it before doing any work and always save any changes in a new map.

Now select ‘ECU Device’

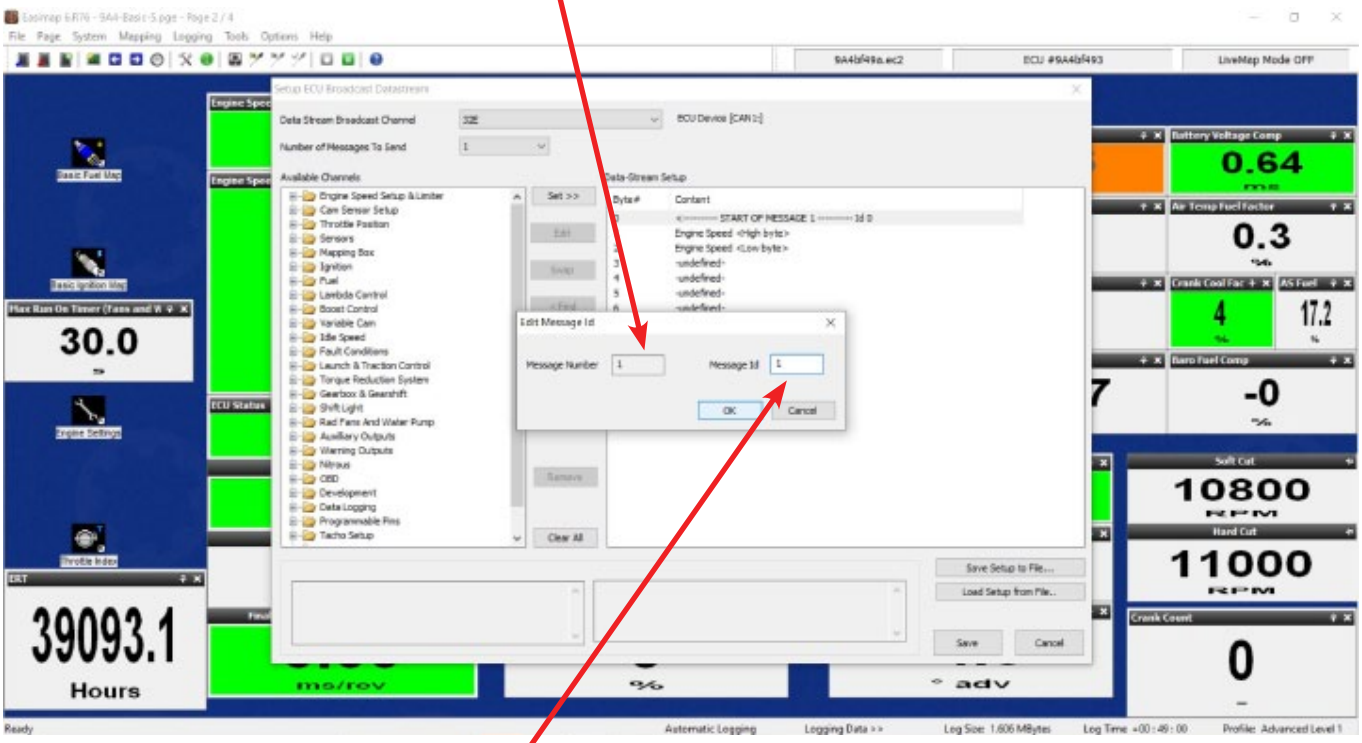


Set the ‘Data Stream Broadcast Channel’ - example set to 32E. Contact supplier of device you are connecting to get advice about what information they require.



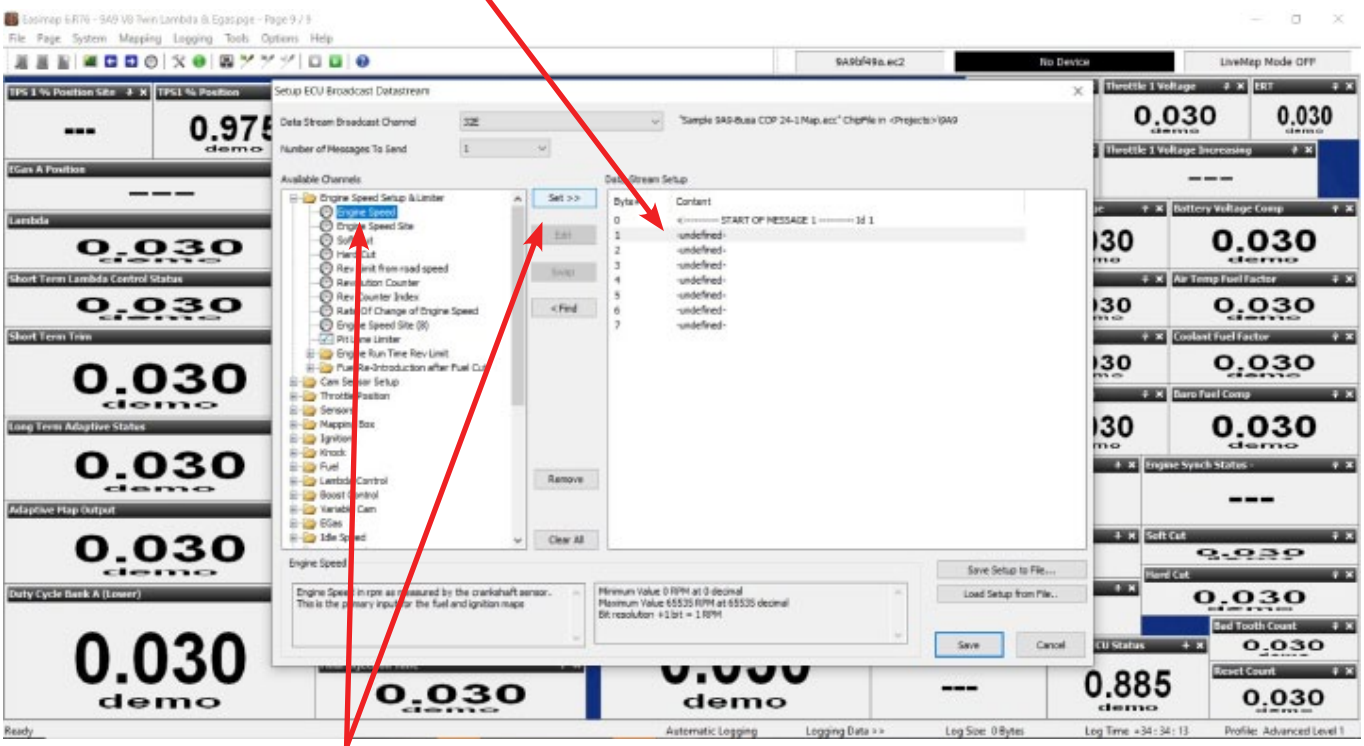
Set ‘Number of Messages to Send’ 1 selected in sample (8 Maximum). Contact supplier of device you are connecting to for advice about number of messages.

START OF MESSAGE 1’ Id0 the Id will normally need to be changed to say 1 and if more messages are used each message will increase e.g. 1, 2, 3,



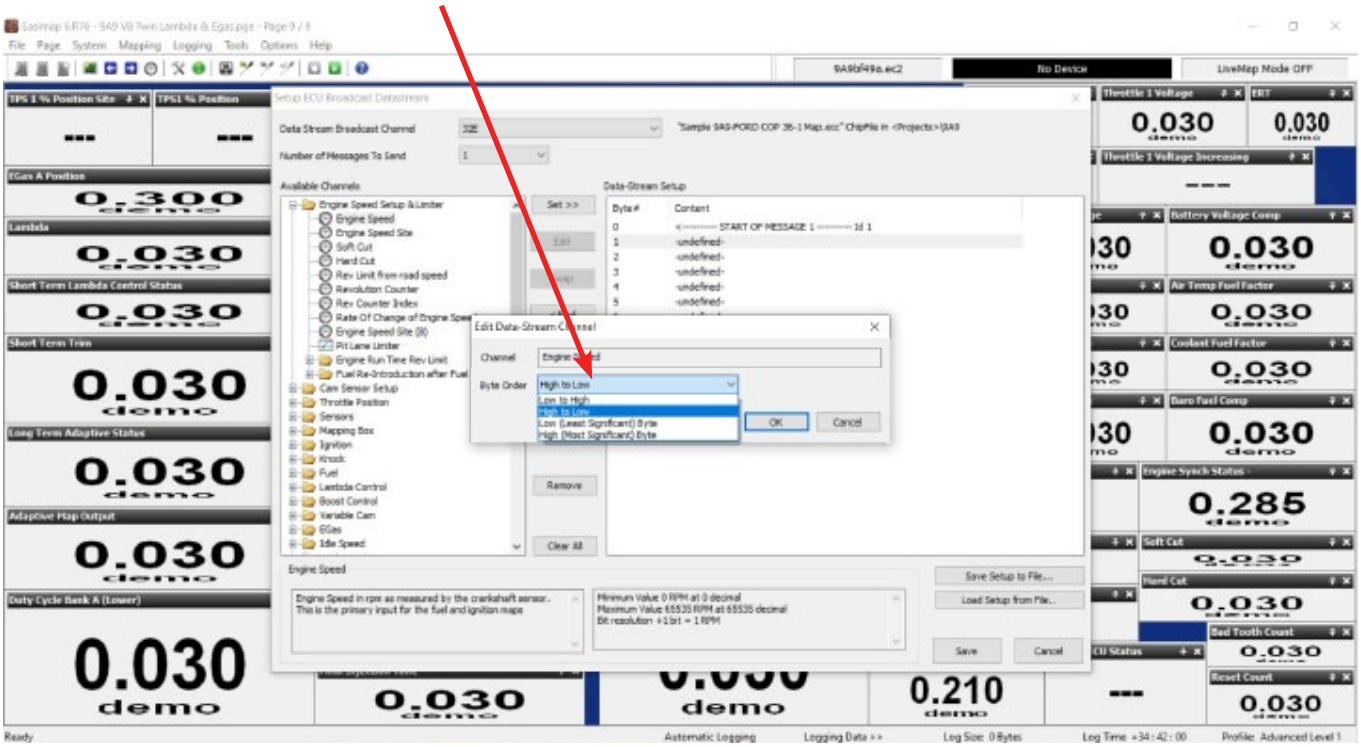
Click on the Id and change as required

To set a channel:
Highlight the channel you want to set.

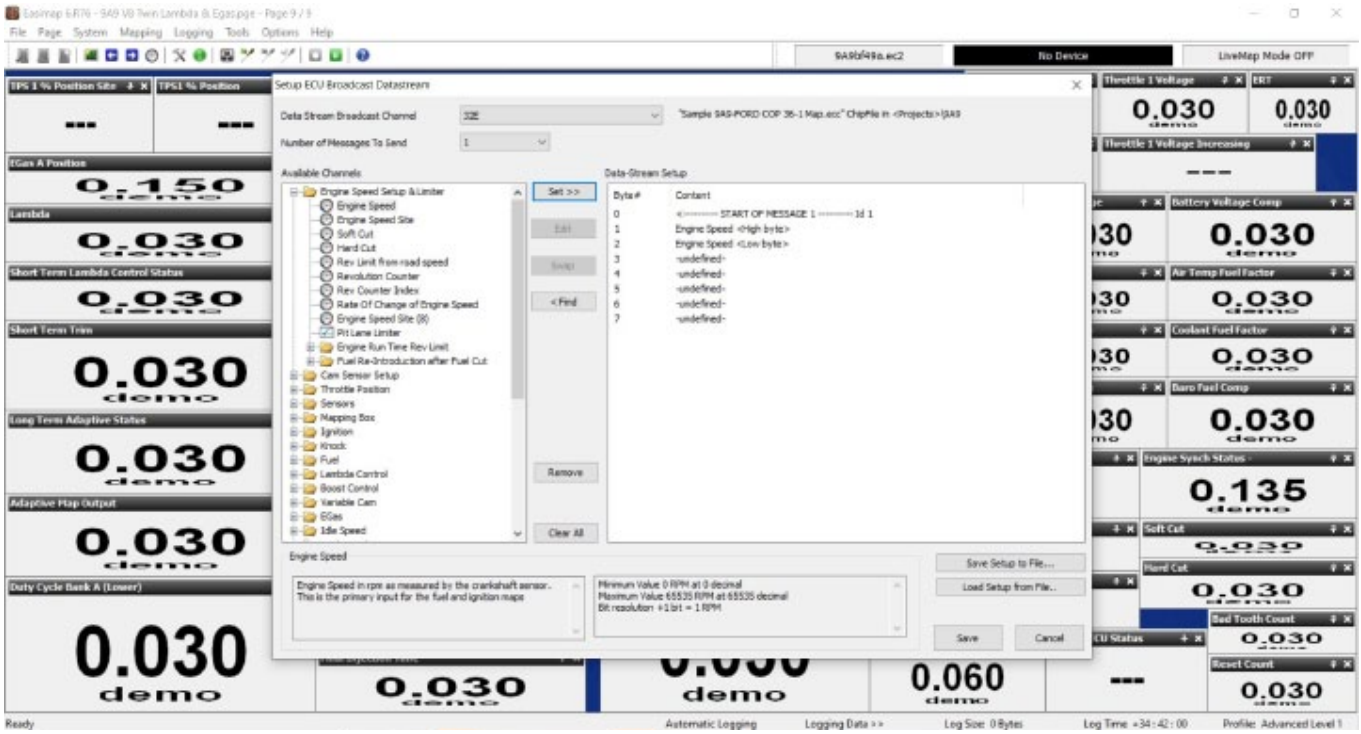


Find the required information in the folders, example shows ‘Engine Speed’.
Click ‘Set’.

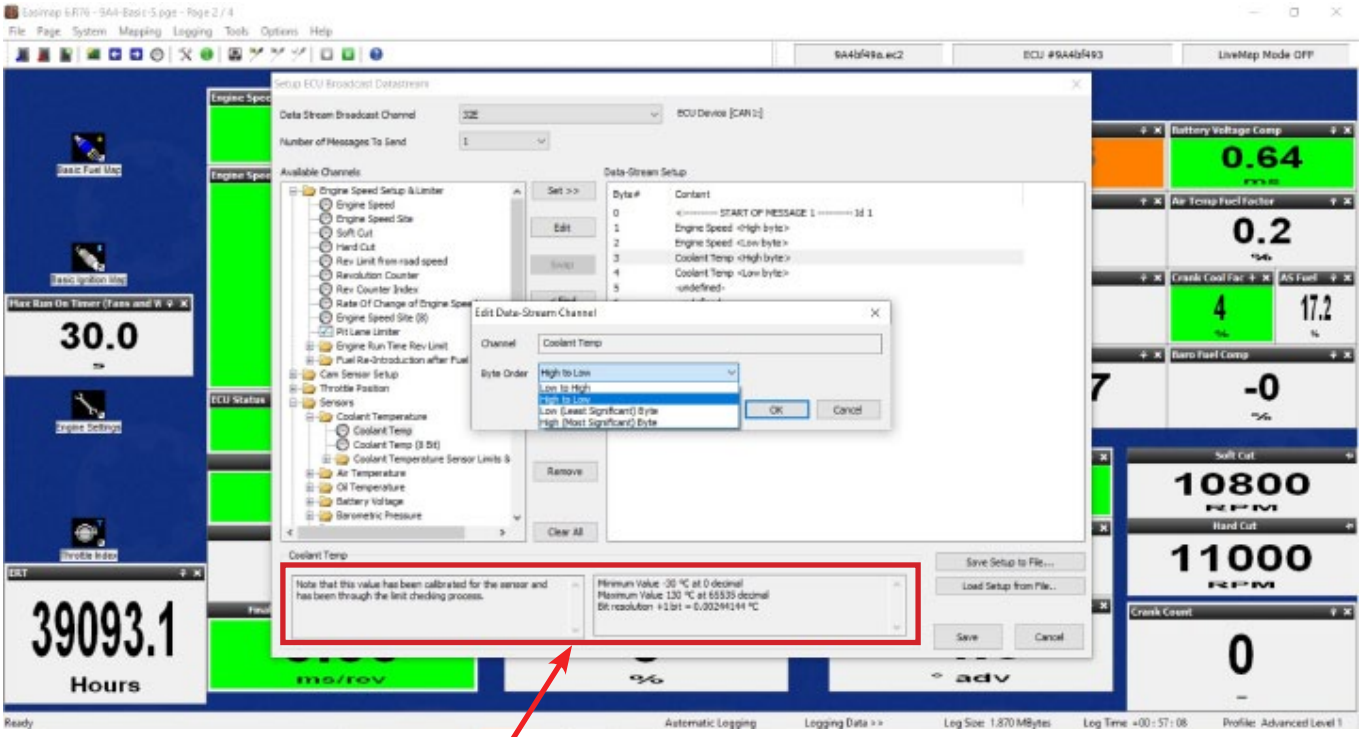
You will need to then set the Byte order. We normally use High to Low', if using both bytes and if using single byte only, we would normally use 'High Byte Only', but you would need to confirm this with the Device supplier.



Please make sure you save changes regularly.

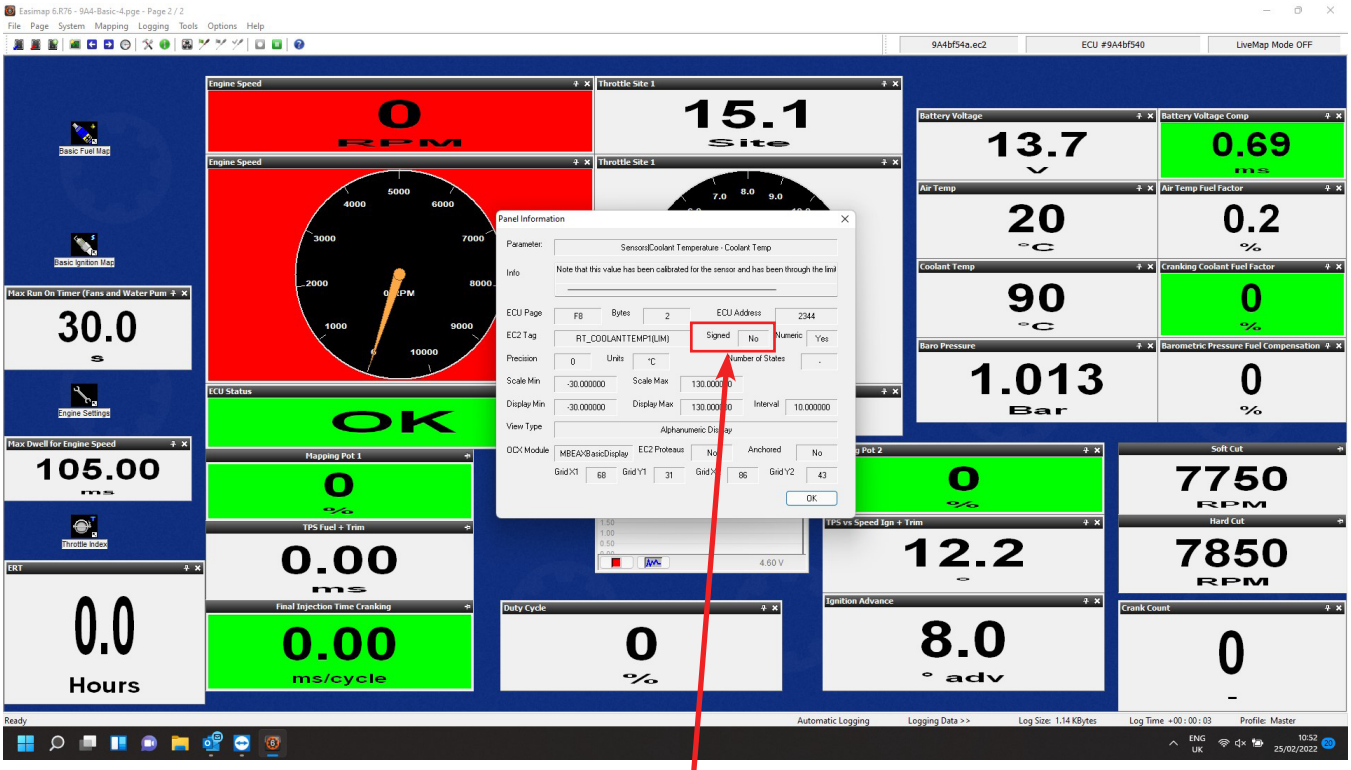


There are currently 2 channels set in the example below, engine speed and coolant temp. Both of these are being set up in 16 bit, RPM will always need to be 16 bit because it is 1 rpm per bit. Coolant temp is also being set in 16 bit, but this is quite often set up in 8 bit since it does not normally require accuracy greater than 1 degree centigrade.



All the information required from your device supplier is detailed within this section for each parameter you select. This box shows the information associated with the parameter that is selected and which ever parameter you decide you wish to transmit. You may need to speak to your receiving device provider on how it is set up.

Signed or Unsigned CAN Data Stream



Most CAN data coming from MBE is Unsigned. If you add a Panel with the data you want to know about to your Realtime screen, then Right click on it, more information is shown (see above). Coolant temperature has been used as an example.

Please be aware that Technical Support involving our Technicians is chargeable

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