SETUP GUIDE · COMAP + DUT-E CAN

Connect a DUT-E CAN fuel level sensor to a ComAp InteliGen4 200

Wire a DUT-E CAN fuel level sensor to the CAN1 port of a ComAp InteliGen4 200 genset controller, set up the sensor, and show fuel level and volume on the controller screen. Tested in 2025.

wagencontrol.eu/compatibility/comap/inteligen4-200-dut-e-can/

CONTROLLER ComAp InteliGen4 200 (8–36 V)	SENSOR DUT-E CAN fuel level sensor (10–45 V)
INTERFACE CAN J1939, CAN1 port of the controller	CONTROLLER SOFTWARE InteliConfig 2.60.2.2
SENSOR SOFTWARE Service S6 DUT-E 6.05 with the SK S6 adapter kit	SENSORS PER MODULE Up to 4 analog values; add a module for more

Wire the sensor to the controller

1. Connect the **CAN H** wire of the controller's **CAN1** port to CAN H of the DUT-E CAN.
2. Connect the **CAN L** wire of CAN1 to CAN L of the DUT-E CAN.
3. Connect the sensor's **brown** wire (ground) to the negative terminal of the power supply.
4. Connect the sensor's **orange** wire to the positive supply: the sensor accepts **10–45 V**.
5. The InteliGen4 200 itself runs on **8–36 V**, so one 12 V or 24 V supply can feed both.

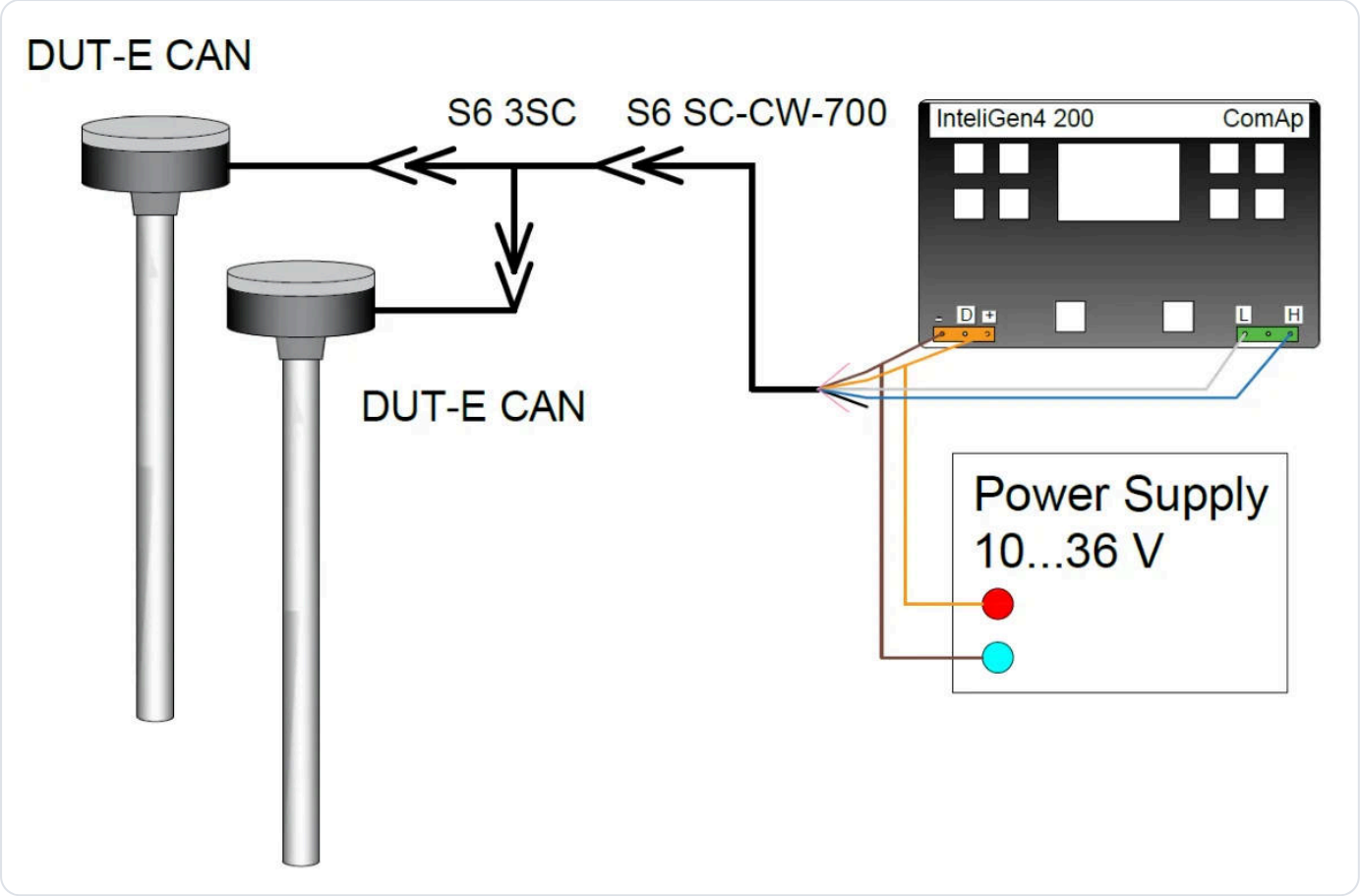

Figure 1. Two DUT-E CAN sensors on the CAN1 port, connected with S6 3SC and S6 SC-CW-700 cables.

Set up the DUT-E CAN

Configure the sensor with the SK S6 adapter kit and the Service S6 DUT-E software (version 6.05). The DUT-E CAN needs only the standard setup:

- enter the probe length after trimming or extending it,
- calibrate it for an empty and a full tank,
- build the tank profile (calibration table), so level is converted to litres.

Give each sensor its own address: **101** for the first, **102** for the second. The controller reads them by these addresses.

Add the sensor to the controller in InteliConfig

Connect the InteliGen4 200 to your computer with a USB cable and start InteliConfig.

In the start window, choose **Connect to controller**.

2. Select the connected controller and press **OPEN**.
3. Click the **Controller Configuration** icon.
4. On the **Modules** tab, under **ECU Modules**, choose **Add New Module**, then **User device → Canbus**.
5. In **Module Settings**, set the **Communication Timeout** and the module name that the controller screen will show (for example `DUT-E CAN`). Press **Add Module**.
6. Open the **J1939 Parameters** tab and press **+** to add a parameter.

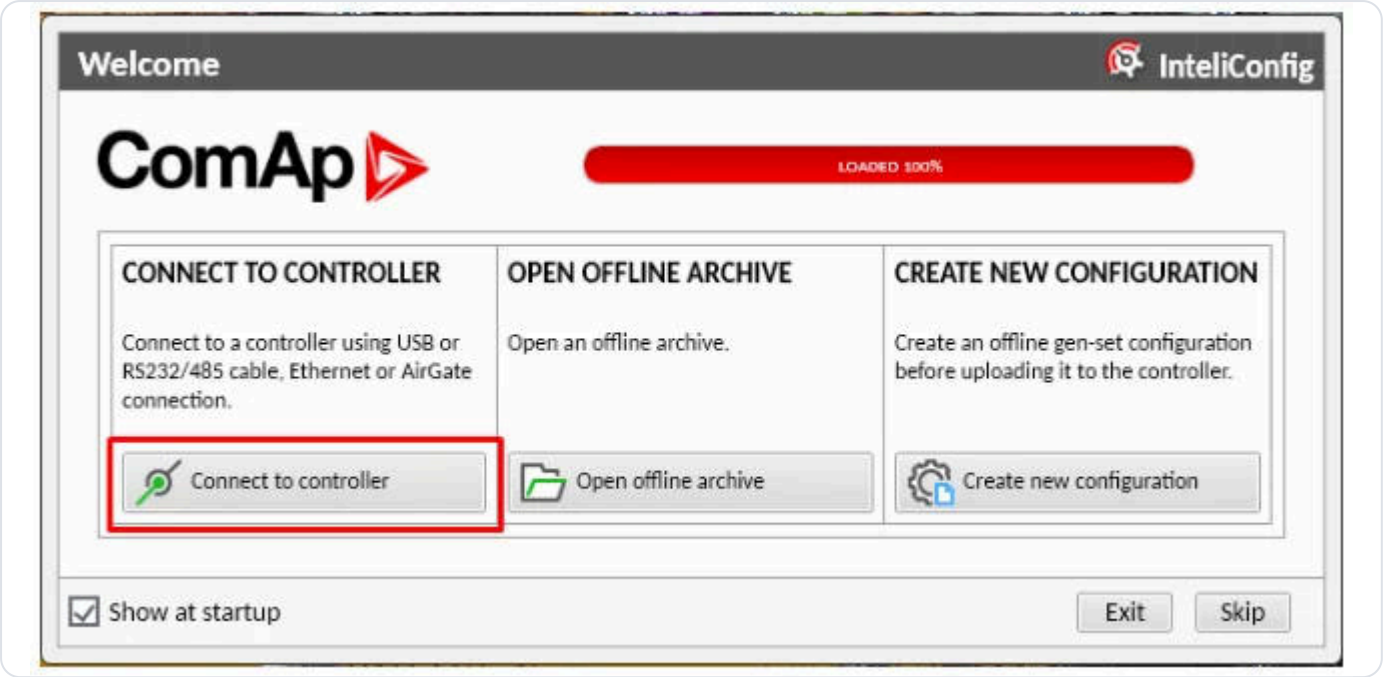

Figure 2. Start window: Connect to controller.

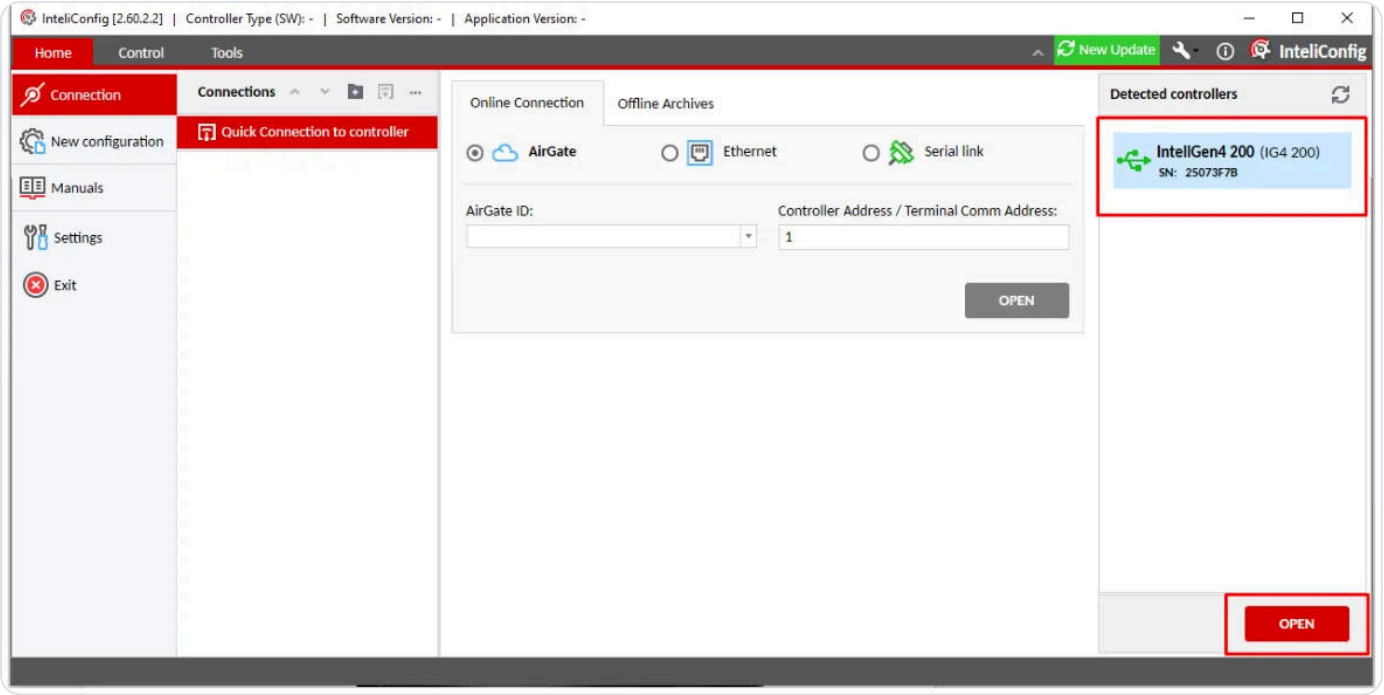

Figure 3. Select the controller and press OPEN.



Figure 4. Open Controller Configuration.

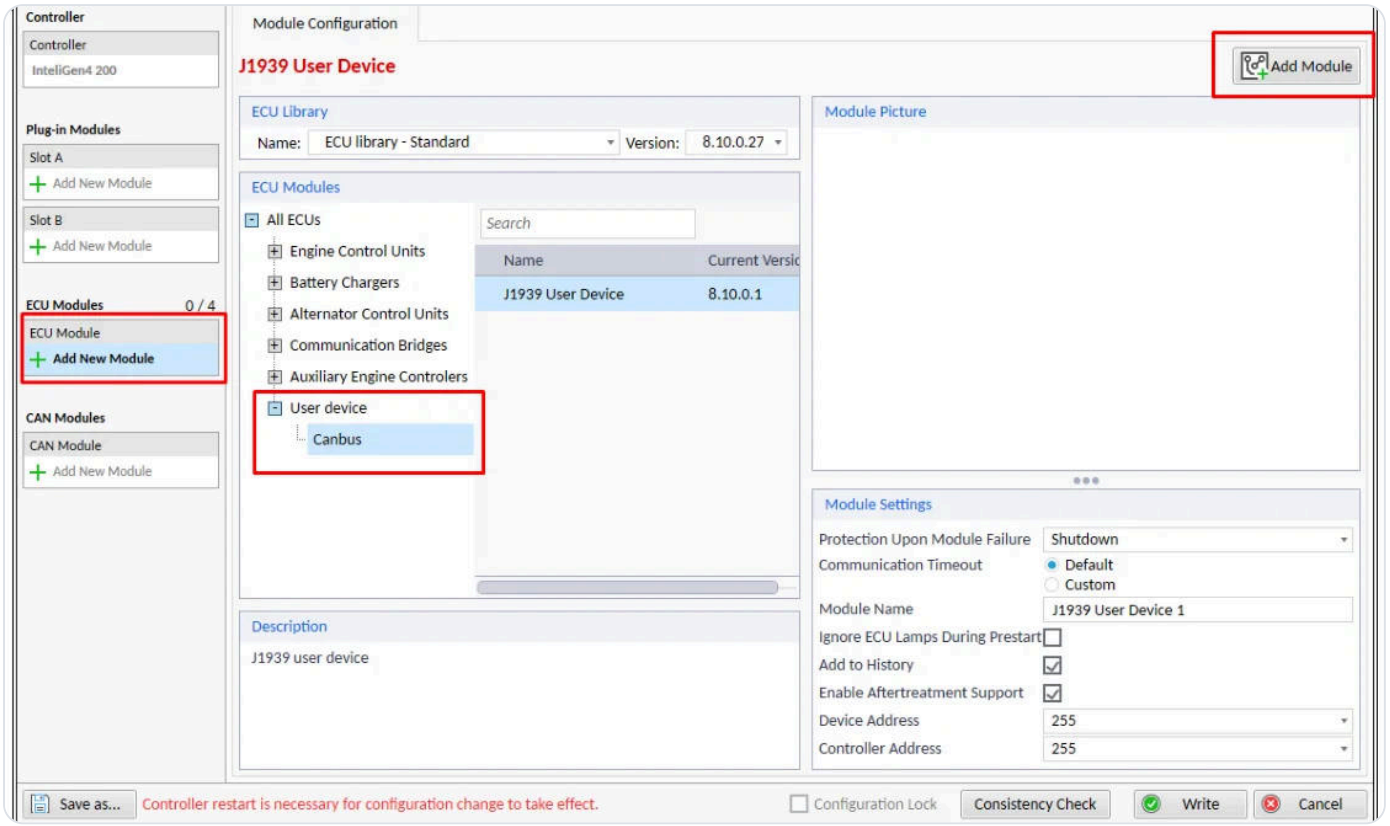

Figure 5. Modules → Add New Module → User device → Canbus.

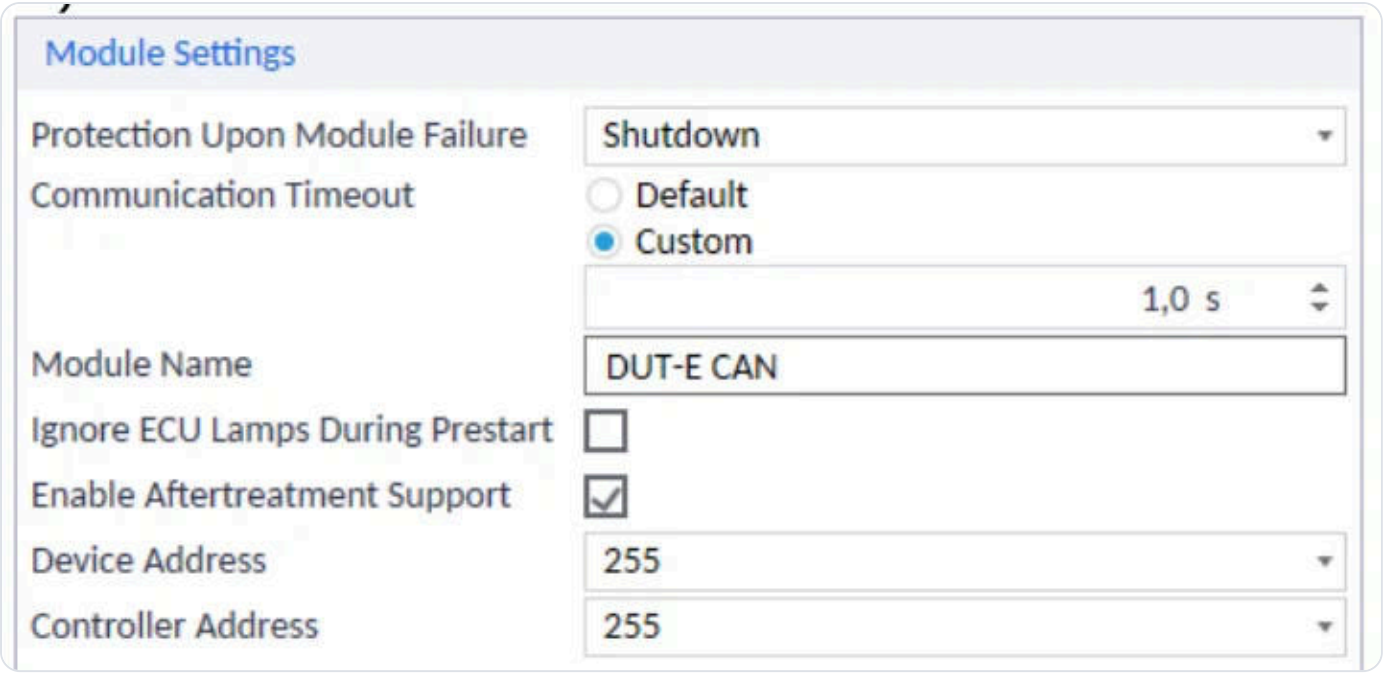

Figure 6. Module Settings: timeout and the name shown on the controller.

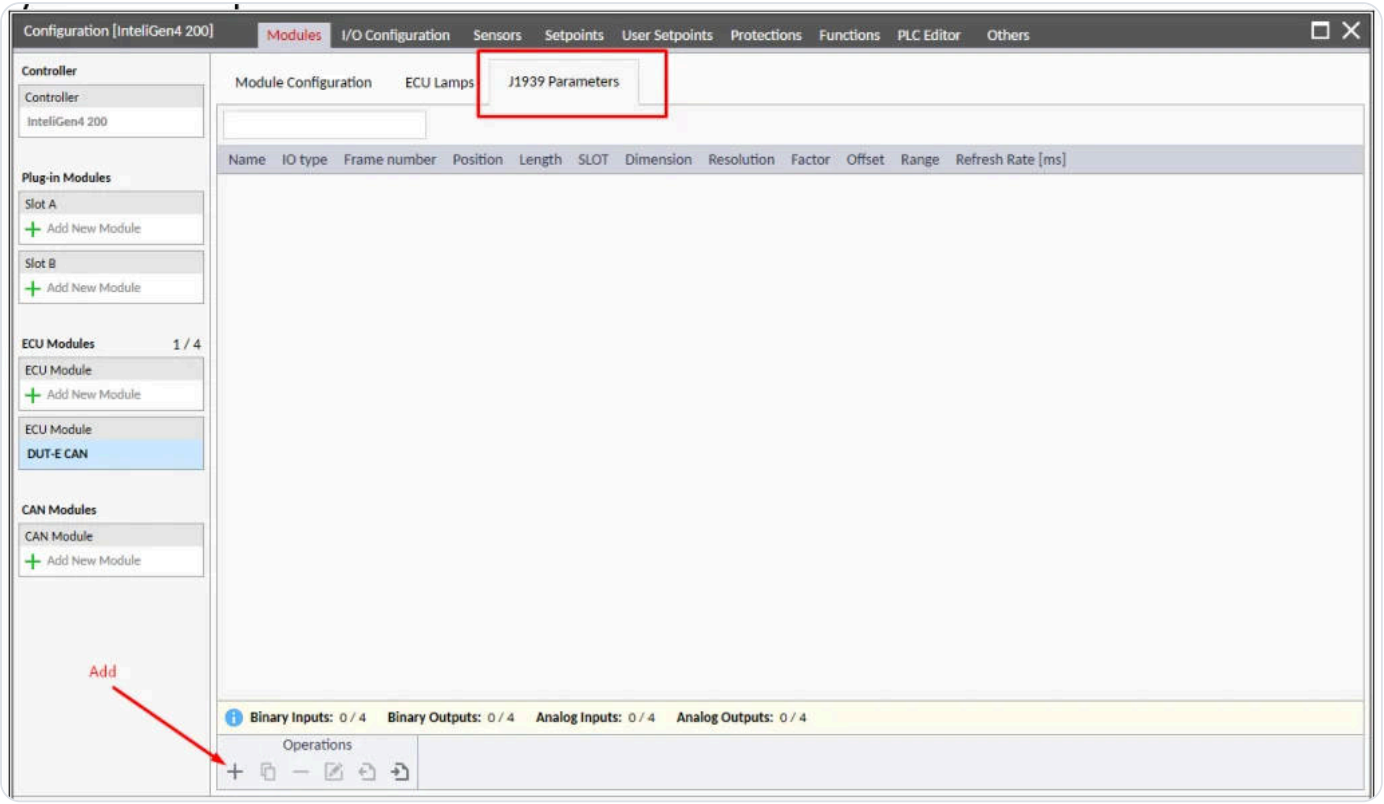

Figure 7. J1939 Parameters: add a parameter with +.

> One module holds up to **four analog inputs**. For more values (for example a third and fourth sensor with level and volume each), add another module the same way; each module gets its own screen on the controller.

Enter the J1939 parameters

In the parameter window, fill in:

FIELD	WHAT TO ENTER
Name	Parameter name, e.g. Fuel level 1
IO type	Analog Input
Frame number	The PGN in raw format, e.g. `0x18F60665` : `18` = priority, `F606` = PGN 62982, `65` = sensor address 101
Position	Starting byte of the value (from the S6 database and the sensor manual)
Length	Length of the value in bits
Dimension	Unit shown on the screen
Resolution	Decimal places shown
Factor	Scale step
Offset	Offset added to the value

Tested values for two sensors at addresses 101 and 102:

NAME	FRAME NUMBER	POSITION	LENGTH (BITS)	DIMENSION	RESOLUTION	FACTOR	OFFSET
Fuel level 1	0x18F60665	1.1	16	mm	0.1	0.10	0.0
Fuel volume 1	0x18F60665	3.1	16	L	0.1	0.10	0.0
Fuel level 2	0x18F60666	1.1	16	mm	0.1	0.10	0.0
Fuel volume 2	0x18F60666	3.1	16	L	0.1	0.10	0.0

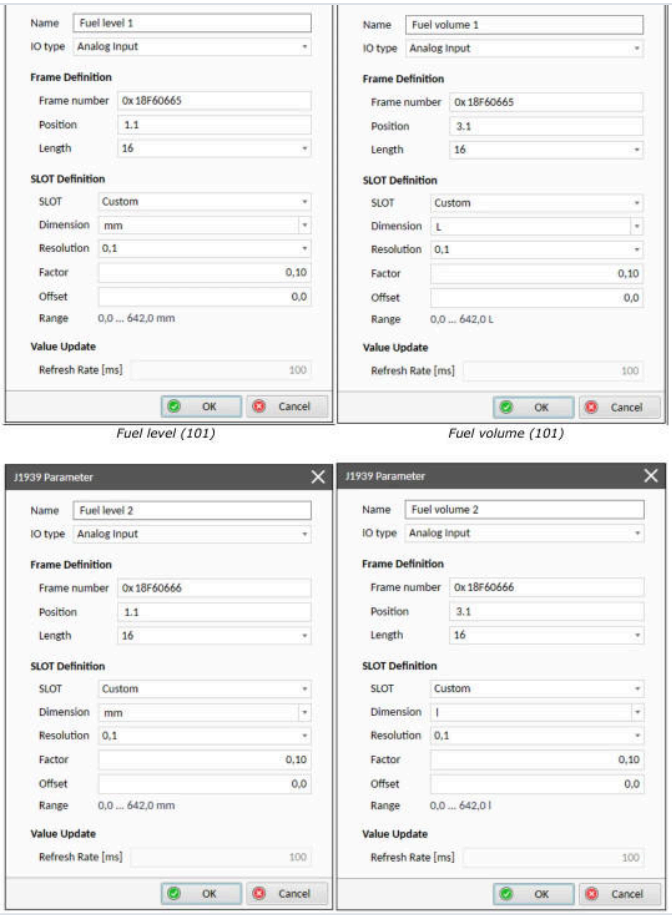

Figure 8. The four parameters as entered in InteliConfig. Refresh rate stays at 100 ms.

Show fuel level and volume on the controller screen

1. Open the **I/O Configuration** tab, select the **DUT-E CAN** module you created and go to **Analog Inputs**.
2. Add each parameter with the **+** button at the bottom of the screen.
3. For each one, pick it in the **ECU Value** list and tick **Used in Screens**.
4. Press **Write**. When asked to log in, enter **Username/UID 0001** and **Password/PIN 0000** (factory defaults).
5. The controller saves the configuration and restarts; the values then appear on its screen.

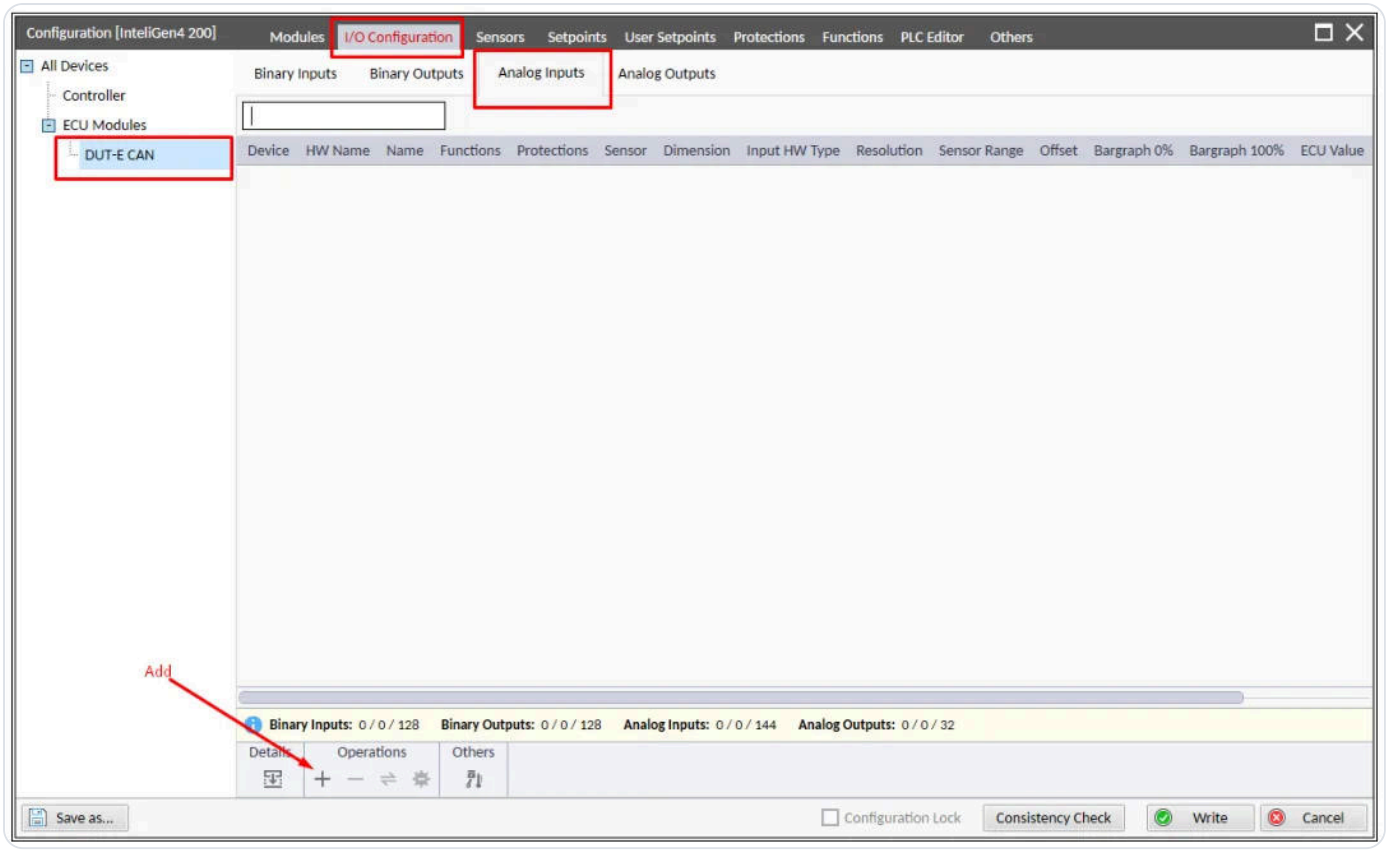

Figure 9. I/O Configuration → DUT-E CAN → Analog Inputs → +.

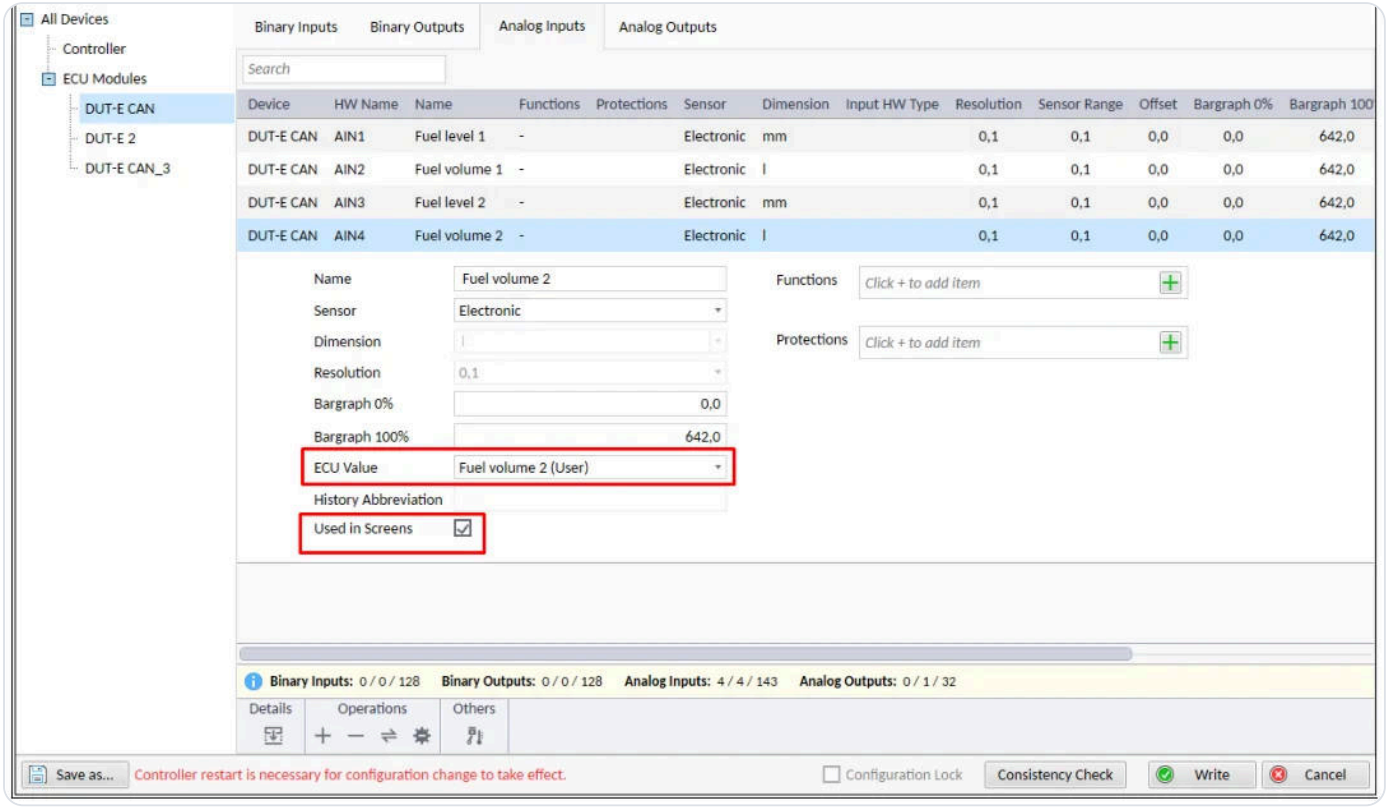

Figure 10. Choose the ECU Value and tick Used in Screens.

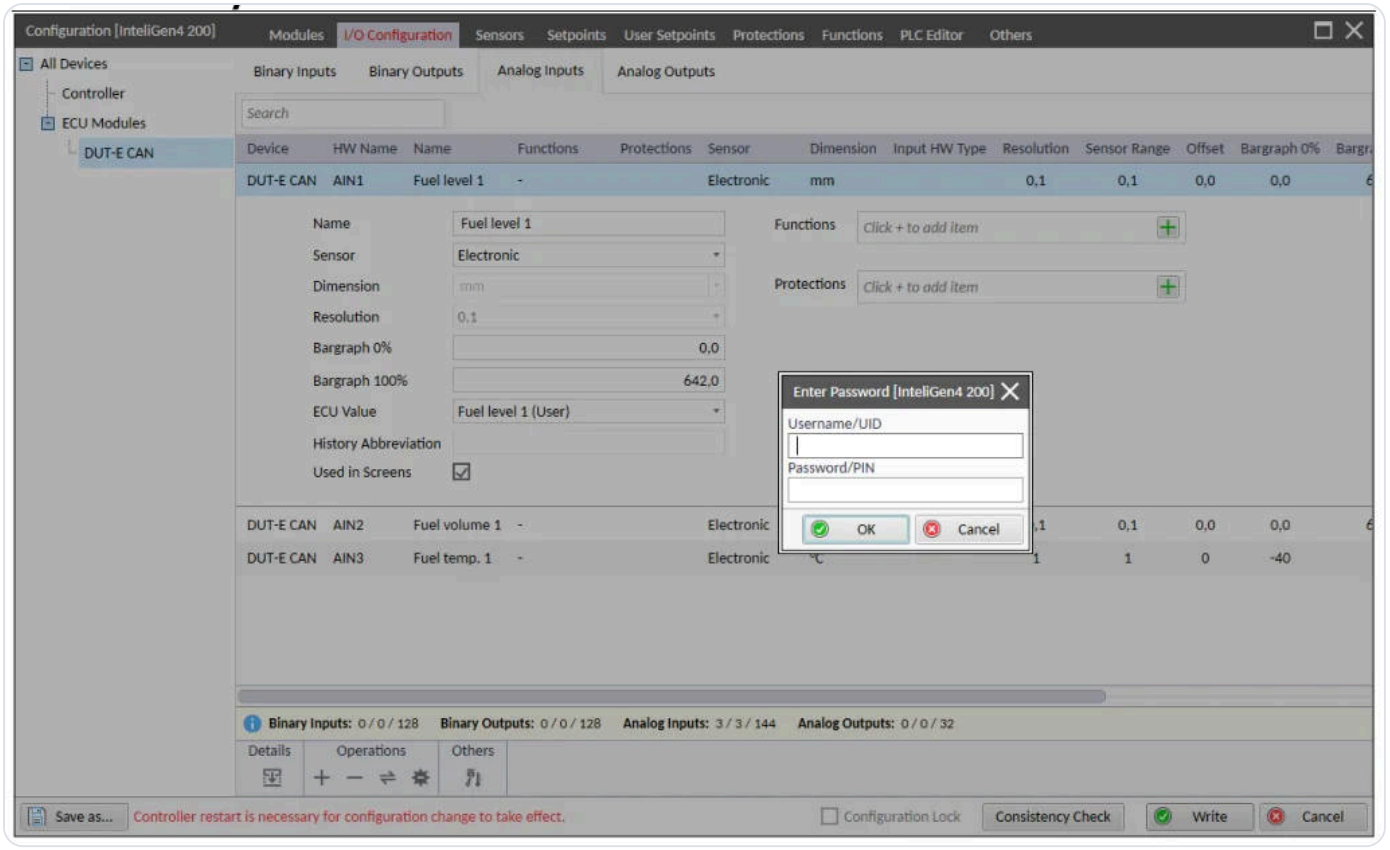

Figure 11. Write the configuration and log in.

Check the readings

Compare the controller screen with Service S6 DUT-E: level and volume must match for each sensor. In the test, the controller showed 687.8 mm / 639.1 L for sensor 1 and 70.7 mm / 617.8 L for sensor 2, the same as the service software.

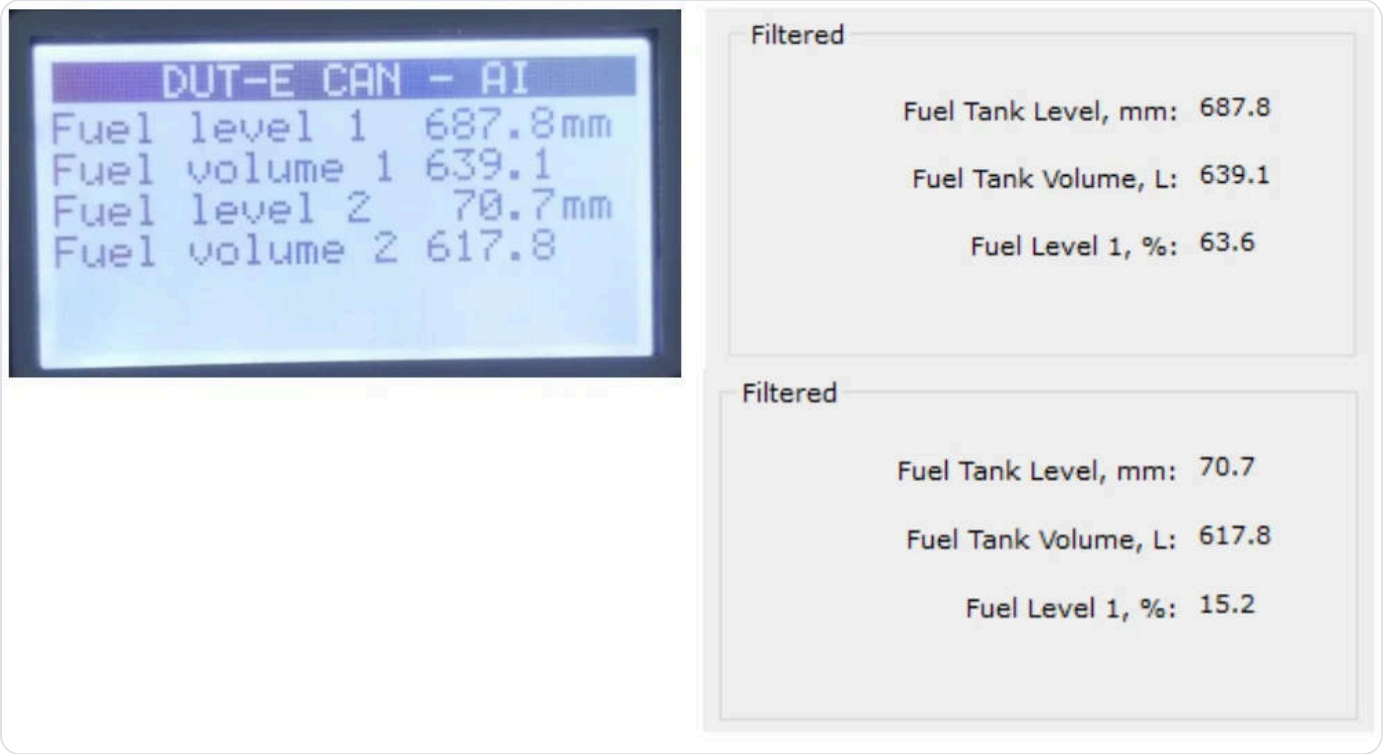

Figure 12. Controller screen (left) and Service S6 DUT-E (right) show the same values.

Last updated 26 November 2026.