1. Disclaimer

The unit is delivered with certain factory settings. Given the fact that these settings are based on typical values, they are not necessarily the correct settings for matching the individual engine. Thus precautions must be taken to check the settings before running the engine.

Thomson Technology takes no responsibility for the installation or operation of the generator set. If there is any doubt about how to install or operate the generator set controlled by the unit, the company responsible for the installation or the operation of the set must be contacted.

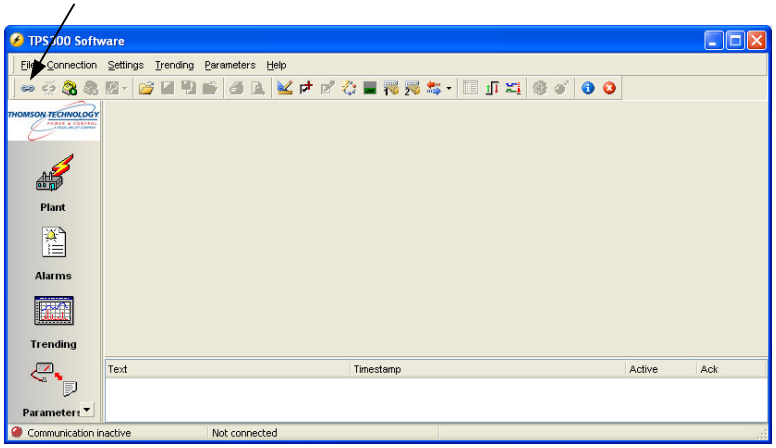
Thomson Technology does recommend a thorough review of all parameters to ensure they are consistent with your specific application requirements.

Refer to the "MEC 310 Installation and Operation Manual" (PM075) for detailed operating instructions.

2. Initial Field Setup

Use the TPS300 utility software provided. Connect to the unit using the SSP 300 Service Setup Port.

- Click the toolbar button to connect to the MEC 310 controller via SSP 300.



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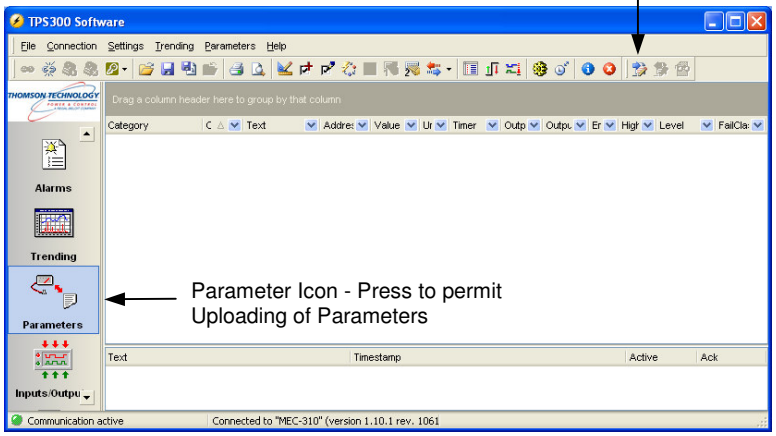
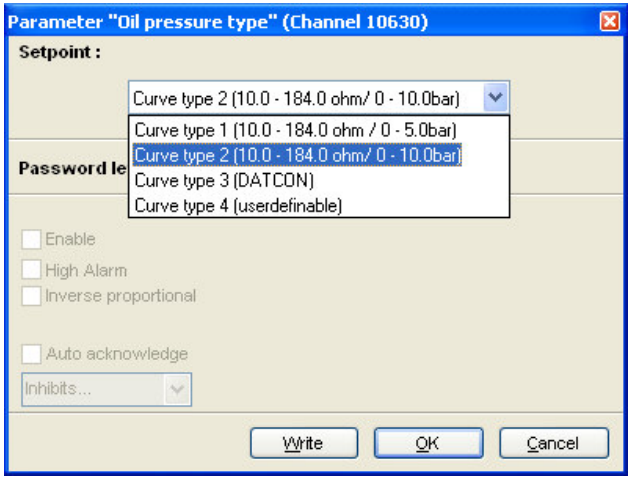
MEC 310 Quick Start Guide

- Select Parameter function by clicking the Icon on the left side of the application window, and then upload the parameters from the device using the "Upload Parameters from Device" Icon on the top menu bar.



- Select the appropriate curve for the installed VDO oil pressure sensor **Parameter "Oil pressure type" (Channel 10630)**, then press the "**Write**" button to send it to the unit (Curve type 2 Default).



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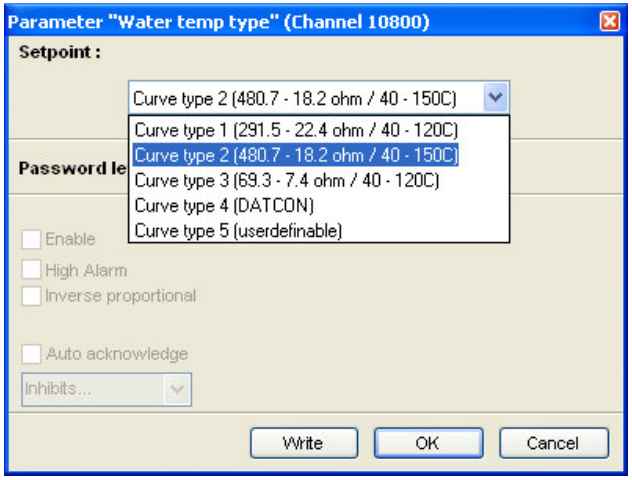
- Select the appropriate curve for the installed VDO water temperature sender **Parameter "Water temp type" (Channel 10800)**, then press the "**Write**" button to send it to the unit (Curve type 2 Default).



- Set the Alarm and Shutdown Oil Pressure setpoint as recommended by the engine manufacturer:
  - Channel 4310 "Oil pressure 2.1" - Low Oil Pressure Alarm Level.
  - Channel 4320 "Oil pressure 2.2" - Low Oil Pressure Shutdown Level.
- Set the Alarm and Shutdown Water Temperature setpoint as recommended by the engine manufacturer:
  - Channel 4460 "Water temp. 3.1" - High Water Temperature Alarm Level.
  - Channel 4470 "Water temp. 3.2" - High Water Temperature Shutdown Level.
- Set the Overspeed Shutdown setpoint as recommended by the engine manufacturer:
  - Channel 4510 "Overspeed1" - Overspeed1 Shutdown Level.
- Set the Tacho-teeths to match the number of teeth for speed sensing device:
  - Channel 6171 "Tacho-teeths"

THOMSON TECHNOLOGY POWER & CONTROL A REGAL-BELOIT COMPANY

MEC 310 Quick Start Guide

3. Quick Start Operating Instructions for AMF Option

AUTOMATIC Operation

Push Green "**AUTO/MODE**" button - the Green LED will light for automatic operation.

ON LOAD TEST Operation

- Press the "**TEST**" button.
- The Generator will start and load will transfer to the generator after preset delays.
- Load will Auto re-transfer back to Utility after pre-programmed timed amount - 120 sec Default for both Channel 7062 "Mains OK U" and Channel 7072 "Mains OK f".
- The Generator will continue to run for programmed Cooldown Time and stop.

For further detailed information, refer to the MEC 310 Installation and Operation Manual.

MANUAL Operation

- Press Yellow "**MAN**" button - the Green LED will light to indicate the change to manual selection/operation.
- Manual Load Transfer to Gen
  - To start Generator press the "**RUN**" button.
  - Ensure Generator is running normally. The Green LED on the Engine graphic symbol will light and the Green LED on the Alternator graphic symbol will light after a 3 sec delay - Channel 6221 "Hz/V OK".
  - To transfer the load, first press the UCB "**TRIP(O)**" button, then press the GCB "**CLOSE(I)**" button.
- Manual Load Re-Transfer to Utility
  - Ensure Utility/Mains Voltage is normal. All phases "V/f OK" will be indicated by illumination of the Green LED on the Transformer graphic symbol.
  - To transfer load, first press the GCB "**TRIP(O)**" button, then press the UCB "**CLOSE(I)**" button.

Note: LED lights shown on the MEC 310 mimic bus for the GCB & UCB indicate the position of output control relays (not the actual position of the GCB & UCB power switching devices).