MTU MDEC CAN bus communication in easYgen-3500XT-P2

Clemens - 2025-02-05 - easYgen-3000XT

There are two ways to get an easYgen with support for MDEC Protocols V302, V303, V304.

1. order the easYgen with the MDEC option: P/N 8440-2318 easYgen-3500XT-P2-K58
2. flash easYgen-3500XT-P2 (8440-2087 and 8440-2088) controls to enable MTU MDEC communication via a Software Licensing feature - P/N 10-030-826 LEGACY CAN AND MDEC SUPPORT PACKAGE

Webinar recording for this topic (in German):
https://wss.woodward.com/manuals/Support/Webinar_Recordings/Legacy_LR_(H8-based)_controller_replacement/Webinar%20-%20easYgen%20Option%20K57%26K58.mp4

Old legacy GCP-3x-Option Sc02 and SC10 controls supported the MTU MDEC CAN communication, as well:

** attached a presentation file for this the MTU MDEC CAN bus communication **

Following ECU data are visualized :

The easYgen 3500XT-P2 receives following analog data from the MDEC via CAN2 :

- 11.67 MDEC Coolant temperature [°C]
- 11.68 MDEC Oil pressure [bar]
- 11.69 MDEC Oil temperature [°C]
- 11.70 MDEC Fuel temperature [°C]
- 11.71 MDEC Engine speed [rpm]
- 11.72 MDEC Operation hours [h]

- 11.73 MDEC Error code
- 11.74 MDEC Feedback speed [rpm]

The easYgen 3500XT-P2 receives the following binary data from the MDEC via CAN2 :

- 05.24 MDEC Yellow alarm
- 05.25 MDEC Red alarm
- 05.26 MDEC Alive timeout (True if MDEC Alive message is missing for more than • 1000 ms.)
- easYgen-3500XT-P2 is supporting speed bias connected to MDEC based on

CANbus,

- 0-5V ,
- 0-10V,
- 4-20mA,
- raise & lower pot free contacts

This Software Package includes as well the legacy CAN bus of old GCP-3x controls,

enabling easYgen-3500XT-P2 to talk to obsolete Gateways like GW4-PRO or GW4- Modbus

connected to upper PLC Controllers.

Legacy CAN is not supporting LS-4 communication and Loadsharing

Loadshare Gateway LSG required, if easYgen-3500XT-P2 should be loadshare with GCP-3x controls.

添付

- K57_58 .pdf (1.36 MB)