SERVICE LETTER

Portable Power

SL#: 35002-01-19
Date: 28 JAN 2019
Product: CE GENERATOR
Subject: TEMPERATURE SENSOR OPEN CIRCUIT ALARM

MODEL	SERIAL NUMBER
G20SIIIA	G02030001-> (Fitted with DSE4510 MKII controller ONLY)
G60SIIIA	G06030153-> (Fitted with DSE4510 MKII controller ONLY)

INTRODUCTION

It has come to the attention of DOOSAN Portable Power that there may be a performance issue on G20SIIIA and G60SIIIA models fitted with Deep Sea Electronics (D.S.E) 4510MKII control panel ONLY.

During cold weather below 0˚C the D.S.E controller may activate the Temperature Sensor Open Circuit Alarm during start causing an engine shutdown.

Fig.1 Temperature Sensor Open Circuit Alarm Icon.

DOOSAN Portable Power is currently developing a final solution to solve this issue.
If you are experiencing this issue DOOSAN Portable Power recommends the following solution as a temporary measure until a final solution has been released.

MODIFICATION TO D.S.E 4510 MKII CONTROLLER PROFILE.

The intention of this modification is to highlight how to prevent nuisance Temperature Sensor Open Circuit Alarm during cold weather of below 0˚C. This modification is a temporary solution only. A final solution will be released shortly by DOOSAN Portable Power.

SAFETY

Follow all safety instructions in the operator's manual and decals on the machine and those included in this Service Letter.

⚠ WARNING

This machine may be equipped with an Auto Start System, which can cause the machine to start at any time. Follow all safety recommendations outlined in the operator's manual to avoid injury to personnel. DISCONNECT BATTERY BEFORE MODIFICATION.

⚠ CAUTION

Any modifications to controller profiles without prior approval from a relevant DOOSAN representative or official Service Letter may result in warranty rejection.

1. Download and Install D.S.E Configuration Suite.

Download and install the latest version of DSE Configuration Suite from the DSE website www.deepseaplc.com/support

2. Connect to DSE 4510MKII Controller

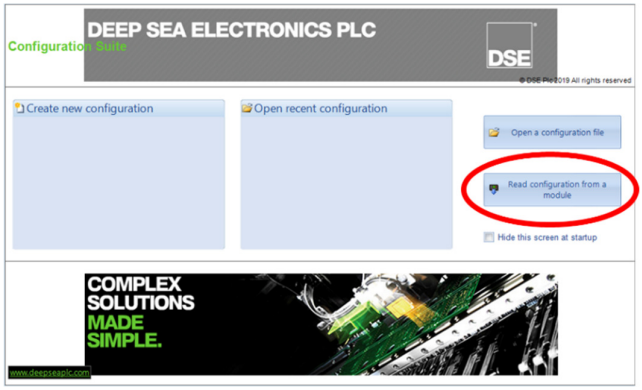
Ensure machine is totally isolated- disconnect battery. Connect your PC or laptop to the back of the 4510MKII controller using USB Male A to Male B connector.

Fig 2. USB Male A to Male B Connector

Fig 3. Location of Connection Port on Back Side of DSE 4510MKII

Once connected from DSE controller to PC/Laptop- proceed to open DSE Configuration Suite.
On the startup page click “read configuration from a module” (See Fig 4).

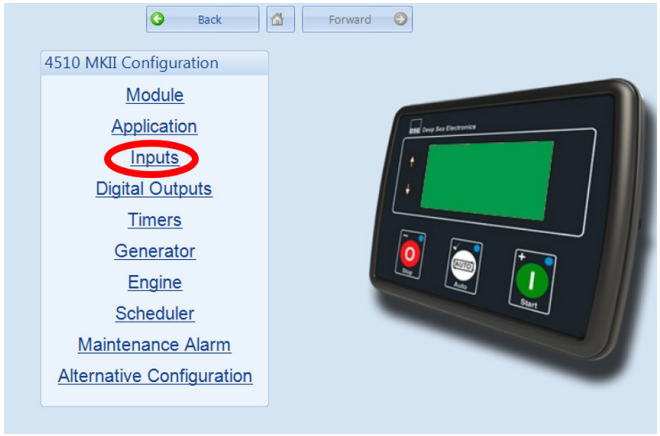
Fig 4. DSE Configuration Suite- Startup Page.



3. Edit Controller Profile.

With the profile from the controller open in DSE Configuration Suite- Click “inputs”

Fig 5. DSE Configuration Suite “Inputs”

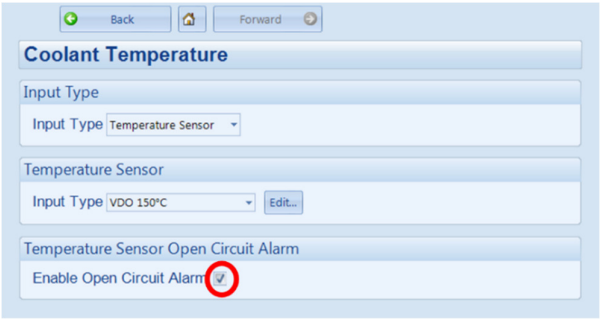


Proceed to next menu by clicking “Coolant Temperature”

Fig 6. DSE Configuration Suite “Coolant Temperature”

Once in “Coolant Temperature” Menu- proceed by unchecking the “Temperature Sensor Open Circuit Alarm”.

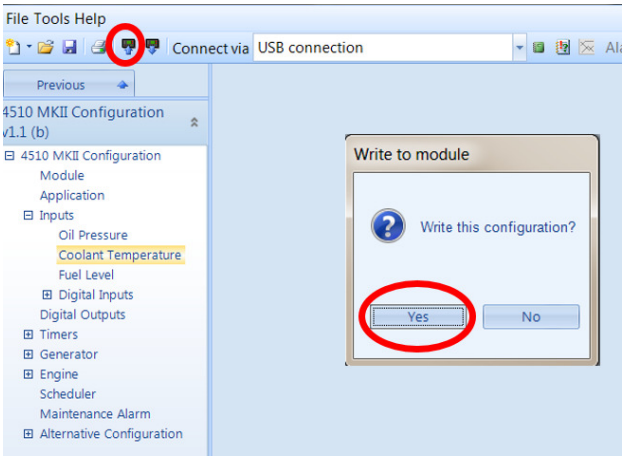
Fig 7. DSE Configuration Suite “Temperature Sensor Open Circuit Alarm”.



4. Write profile to controller

With the “Temperature Sensor Open Circuit Alarm” disabled- the profile is now ready to be written to controller.
Click the “write to module” icon in top left corner of DSE Configuration Suite. You will be prompted “Write this Configuration?” Select yes. Controller is programmed.

Fig 8. DSE Configuration Suite- Write to controller



5. Disconnect Controller and Test.

Exit DSE Configuration Suite and remove USB connection cable from back of controller. Re-connect battery and start machine.

Machine should start without any alarms or shutdowns. The engine temperature display should read “xxxx” or “----” until engine warms to approx. 39˚C. Once Engine reaches temperature engine temperature will display and operate as normal.

Fig 9. DSE 4510MKII Engine Temperature Display

CAUTION

With the “Temperature Sensor Open Circuit Alarm” disabled there is a risk of a temperature sensor fault going undetected. During this temporary period when “Temperature Sensor Open Circuit Alarm” is disabled it is important to regularly check the engine temperature display and coolant level on machine. If the display is reading “xxxx” or “----” when engine is running hot- it is recommended to stop the machine and investigate Temperature Sensor and associated connections. It is also recommended to check coolant level more regularly during this temporary period until a final solution has been released by DOOSAN Portable Power.

MODIFICATION COMPLETE