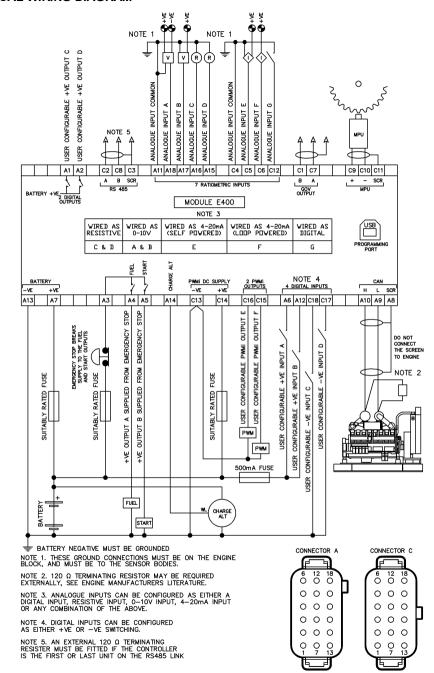
#### TYPICAL WIRING DIAGRAM



NOTE: To meet UL requirements, fuse the module supply at 167% of supply current.



# DEEP SEA FLECTRONICS

053-180 ISSUE 3

# **DSEE400 Installation Instructions**

#### ACCESSING THE FRONT PANEL EDITOR

Press and hold the Stop/Reset

Press and hold the Up

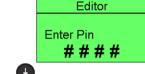
show '#' for security.

Ensure the engine is at rest and the module is in STOP mode by pressing the Stop/Reset



and Auto 😊 buttons simultaneously. If a module security PIN has been set, the PIN number request is then shown:

button, the first '#' changes to '0'. Press Up 🕶 or Down 🖤 buttons to adjust jit to the correct value.



button when the first digit is correctly entered. The digit you have just entered will now

Repeat this process for the other digits of the PIN number. Press and hold the Down button if previous digits need to be edited. Press the Auto button to finished editing the PIN.

Press the Auto button to check the PIN for validity. If the number is not correct, the PIN must be re-entered.

If the PIN has been successfully entered (or the module PIN has not been enabled), the editor is displayed:

Editor - Display Contrast: 53%

#### **EDITING A PARAMETER**

- Enter the editor as described
- Press and hold the Up or Down buttons to cycle to the section you wish to view/change.
- Press the Up buttons to select the parameter you wish to view/change within the currently selected section
- To edit the parameter, press the Auto without to enter edit mode. The parameter begins to flash to indicate that you are editing the value
- Press the Up or Down buttons to change the parameter to the required value.
- button to save the value. The parameter ceases flashing to indicate that it has been saved.
- To exit the editor and save the changes, press and hold the Auto button
- To exit the editor and not save the changes, press and hold the Stop/Reset button

▲NOTE: The editor is exited after 5 minutes of inactivity to ensure security.

NOTE: The PIN number is automatically reset when the editor is exited (manually or automatically) to ensure security.

NOTE: More comprehensive module configuration is possible using the DSE Configuration Suite PC Software, refer to DSE publication 057-251 DSEE400 Configuration Suite PC Software Manual.

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## FRONT PANEL EDITOR PARAMETERS

FRONT PANEL EDITOR PARAMETERS					
Section	Parameter As Shown On Display	Value			
Display	Contrast	0 %			
	Backlight Level	0 %			
	Language	English			
	Current Date and Time	Day:month:year,   hour:minute:seconds			
Engine	Oil Pressure Low Shutdown	nour minute seconds			
Liigiile	(When Enabled)	0.00 bar, kPa, psi			
	Oil Pressure Low Pre Alarm				
	(When Enabled)	0.00 bar, kPa, psi			
	Coolant Temperature High Pre Alarm	0 °C. °F			
	(When Enabled)	0 0, 1			
	Coolant Temp High Controlled	0 °C, °F			
	Shutdown (When Enabled)				
	Coolant Temperature High Shutdown (When Enabled)	0 °C, °F			
	Start Delay Off Load	0 h 0 m 0 s			
	Start Delay On Load	0 h 0 m 0 s			
	Start Delay Telemetry	0 h 0 m 0 s			
	Pre Heat Temperature (When Enabled)	0 °C, °F			
	Pre Heat Timer	0 h 0 m 0 s			
	Post Heat Temperature	0 °C, °F			
	(When Enabled)				
	Post Heat Timer	0 h 0 m 0 s			
	Crank Duration	0 m 0 s			
	Crank Rest Time	0 m 0 s			
	Safety On Delay	0 m 0 s			
	Smoke Limiting	0 m 0 s			
	Smoke Limiting Off Warm Up Time	0 m 0 s			
	Cool Down Time	0 h 0 m 0 s			
	Under Speed Shutdown	Active, Inactive			
	Under Speed Shutdown	,			
	(When Enabled)	0 rpm			
	Under Speed Warning	Active, Inactive			
	Under Speed Warning (When Enabled)	0 rpm			
	Over Speed Warning	Active, Inactive			
	Over Speed Warning (When Enabled)	0 rpm			
	Over Speed Shutdown	0 rpm			
	Speed Overshoot Delay	0 m 0 s			
	Speed Overshoot	0 %			
	Fail To Stop Delay	0 m 0 s			
	Battery Under Voltage Warning Battery Under Voltage Warning Delay	Active, Inactive			
	(When Enabled)	0 h 0 m 0 s			
	Battery Under Voltage Warning	0 V			
	Battery Over Voltage Warning	Active, Inactive			
	Battery Over Voltage Warning Delay	0 h 0 m 0 s			
	(When Enabled)	011011108			
	Battery Over Voltage Warning	0 V			
	Charge Alternator Failure Warning	Active, Inactive			
	Charge Alternator Warning Delay	0 h 0 m 0 s			
	(When Enabled) Charge Alternator Failure Warning	0.0 V			
	Charge Alternator Failure Shutdown	Active, Inactive			
	Charge Alternator Shutdown Delay				
	(When Enabled)	0 h 0 m 0 s			
	Charge Alternator Failure Shutdown	0.01/			
	(When Enabled)	0.0 V			
	Priming Delay	0 s			
	Idle Speed	0 rpm			
	Warming Speed	0 rpm			

Section	Parameter As Shown On Display	Value
Engine	Cooldown Speed	0 rpm
Continued		0 rpm
-0	Priming Speed	0 rpm
	Min Speed	0 rpm
	Default Running Speed	0 rpm
	Max Speed	0 rpm
	Cooldown at Idle Delay	0 h 0 m 0 s
	Delayed Engine Start	0 h 0 m 0 s
	Delayed Engine Stop	0 h 0 m 0 s
	Engine Speed Transient Delay	0.0 s
	Selectable Speed Transfer Time	0 m 0.0 s
	DPF Auto Regen Inhibit*	Active, Inactive
	DPF Manual Regen*	Active, Inactive
	DPF Manual Regen Cancel*	Active, Inactive
	DPF Regeneration Speed*	Active, Inactive
	DPF Regeneration Speed*	0 rpm
	CAN Terminator	Active, Inactive
	Clutch Disengage Low Speed	0 rpm
	Clutch Engage Speed	0 rpm
	Clutch Disengage High Speed	0 rpm
	Clutch Re-Engage Speed	0 rpm
	Maintenance PIN Protect Enable	Active, Inactive
Timers	LCD Page Timer	0 h 0 m 0 s
Tilliois	Scroll Delay	0 h 0 m 0 s
	Engine Pre Heat Timer (When Enabled)	0 m 0 s
	Crank Duration Timer	0 m 0 s
	Crank Rest Timer	0 m 0 s
	Safety On Delay	0 m 0 s
	Smoke Limiting	0 m 0 s
	Smoke Limiting Off	0 m 0 s
	Warm Up Time	0 h 0 m 0 s
	Cool Down Time	0 h 0 m 0 s
	Engine Speed Overshoot Delay	0 m 0 s
	Fail To Stop Delay	0 m 0 s
	Battery Under Voltage Warning Delay	0 h 0 m 0 s
	Battery Over Voltage Warning Delay	0 h 0 m 0 s
	Return Delay	0 h 0 m 0 s
	DPF Ramp*	0 s
Schedule	Schedule	Active, Inactive
	Schedule Period	
	(When Enabled)	Weekly, Monthly
	,	Press Auto 📟 to
		begin editing. Press
		and hold Up or
		Down <b>1</b> to select
	On Load / Off Load / Auto Start Inhibit,	the different
	Week, Start Time, Run Time and Day	parameters in the
	Selection (1-8)	scheduler. Press U
		or Down to
		change the value of
		the parameter.
Active	Active Config	Default Config
Config	Running Speed (When Enabled)	0 rpm
Comig		
	Min (When Enabled)	0 (Configured Unit)
	Max (When Enabled)	0 (Configured Unit)
	Speed at Min (When Enabled)	0 rpm
	Speed at Max (When Enabled)	0 rpm
	Speed Priority 1 (When Enabled)	0 rpm

<sup>\*</sup>Electronic Engines Only

Section	Parameter As Shown On Display	Value	
Active	Speed Priority 2 (When Enabled)	0 rpm	
Config	Speed Priority 3 (When Enabled) 0 rpm		
Continued	Speed Priority 4 (When Enabled)	0 rpm	
	Emptying Speed (When Enabled)	0 rpm	
	Filling Speed (When Enabled) 0 rpm		
	Setpoint (When Enabled) 0 (Configured Uni		
	Deadband (When Enabled) 0 (Configured Uni		
	Engine Start Value (When Enabled)	0 (Configured Unit)	
	Engine Stop Value (When Enabled)	0 (Configured Unit)	

# ACCESSING THE SPEED CONTROL EDITOR

- Ensure the engine is at rest and the module is in STOP mode by
- pressing the Stop/Reset button.

  Navigate to the Active Configuration screen in the Engine section of the module's display.
- Press and hold the Up and Down buttons simultaneously to enter the editor, no PIN is required.
- Edit the parameters as described overleaf in the Editing a Parameter

# SPEED CONTROL EDITOR PARAMETERS

Section	Parameter As Shown On Display	Value	
Active	Active Config	Default Config	
Config	Running Speed (When Enabled)	0 rpm	
	Min (When Enabled)	0 (Configured Unit)	
	Max (When Enabled)	0 (Configured Unit)	
	Speed at Min (When Enabled)	0 rpm	
	Speed at Max (When Enabled)	0 rpm	
	Speed Priority 1 (When Enabled)	0 rpm	
	Speed Priority 2 (When Enabled)	0 rpm	
	Speed Priority 3 (When Enabled)	0 rpm	
	Speed Priority 4 (When Enabled)	0 rpm	
	Emptying Speed (When Enabled)	0 rpm	
	Filling Speed (When Enabled)	0 rpm	
	Setpoint (When Enabled)	0 (Configured Unit)	
	Deadband (When Enabled)	0 (Configured Unit)	
	Engine Start Value (When Enabled)	0 (Configured Unit)	
	Engine Stop Value (When Enabled)	0 (Configured Unit)	

#### **DIMENSIONS AND MOUNTING**

For flat surface mounting in a Type 1 enclosure to meet UL requirements

DIMENSIONS

189 mm x 125 mm x 54 mm (7.5" x 4.9" x 2.1")

PANEL CUTOUT 148 mm x 112 mm

(5.8" x 4.4")

MOUNTING HOLE SPACING 165 mm x 68 mm

**MOUNTING HOLE DIAMETER** 

Suitable for M4 (5/32" diameter) (6.5" x 2.7")

# **CONNECTORS & WIRING HARNESS**

Details	DSE Part Number	Manufacturer's Part Number	Manufacturer
Connector A	007-850	DT16-18SA-K004	Deutsch
Connector C	007-851	DT16-18SC-K004	Deutsch
1.2 m Wiring Harness Complete With Connector A & C.	007-852	-	DSE