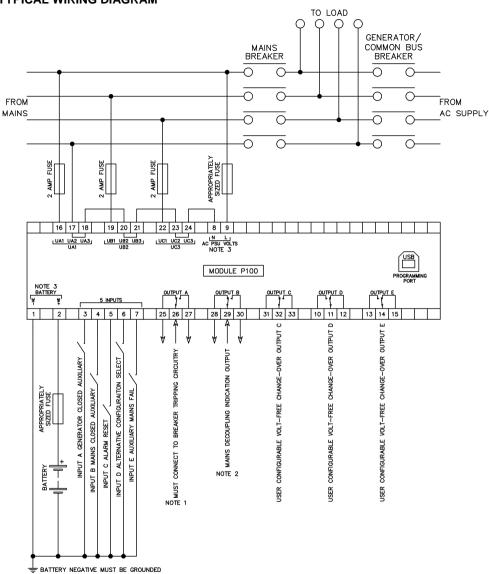
TYPICAL WIRING DIAGRAM



NOTE 1

DEPENDING UPON APPLICATION, ONE OR MORE BREAKERS WILL NEED TO BE TRIPPED IN CASE OF MAINS FAILURE.

NOTE 2

IT IS RECOMMENDED THAT THE MAINS DECOUPLING INDICATION OUTPUT IS GIVEN TO ANY OTHER DEVICE THAT HAS CONTROL OVER THE BREAKER BEING TRIPPED.

NOTE :

THE MODULE CAN BE POWERED BY AC OR DC. CONNECTING BOTH WILL NOT DAMANGE THE MODULE.



DEEP SEA ELECTRONICS

053-149 ISSUE 4

DSEP100 Installation Instructions

DSEP100 is used to detect mains failure when in parallel and disconnect the mains supply from the local supply in line with common international requirements.

Typical applications able to benefit from DSEP100 are:

- Peak Lopping
- Fixed Export
- Short Term Operating Reserve (STOR)
- No Break, Seamless Or Closed Transition
- Commercial And Domestic Local Power Generation.

The DSEP100 is intended to be placed into the application wiring in such a way as to decouple the mains and generator supplies in case of a mains failure when in parallel.

Depending upon the requirements of the system, the relay is used to open the mains breaker, generator breaker or both.

Additionally, any other control logic placed between the DSEP100 and the breakers being controlled must also be designed with fast operation in mind. The combined time between the DSEP100 detecting the fault, and the time of the breaker opening must be within the specification of the legislation in place at the site. This legislation differs between countries.

ELECTRICAL SPECIFICATIONS

Parameter	Specification
DC Supply Voltage	8 V _{DC} to 35 V _{DC}
AC Supply Voltage	85 V _{AC} to 305 V _{AC}
AC Supply Frequency	45 Hz to 65 Hz
Mains Phase to Neutral Voltage Sensing	15 V _{AC} to 333 V _{AC}
Mains Phase to Phase Voltage Sensing	26 V _{AC} to 576 V _{AC}
Mains Voltage Sensing Offset from Earth	230 V _{AC}
Volt-Free Output Rating	8 A at 250 V _{AC}
	5 A at 30 V _{DC}

DIMENSIONS AND MOUNTING

Parameter	Specification
Dimensions	157 mm X 105 mm X 67 mm (6.18 " X 4.13 " X 2.64 ")
Mounting Type	DIN rail or chassis mounting
DIN Rail Width	EN 50022: 35 mm (1.4 ")
Mounting Holes	M4 (0.25 ")
Mounting Hole Centres	146 mm X 94 mm (5.75 " X 3.70 ")
Weight	380 g (13.4 oz)

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Tel: +1 (815) 316 8706 Fax: +1 (815) 316 8708 Email: support@deepseausa.com Web: www.deepseausa.com ANOTE: A means of attaching a small padlock or utility company seal is provided. When attached, this prevents the settings being changed either from the Main Configuration Editor or via Configuration Suite PC Software.

ACCESSING THE MAIN CONFIGURATION EDITOR

Press the Tick and Reset buttons simultaneously to enter the main configuration editor. This is not possible if the Configuration Lock is active



- If a module security PIN has been set, the PIN number request is then shown:
- The first '#' changes to '0'. Press the *Up* or *Down* buttons to adjust it to the correct value.
- Press the Right button when the first digit is correctly entered.
 The digit previously entered now shows as "#" for security.
- Repeat this process for the other digits of the PIN number. Press the
 - Left button to move back to adjust one of the previous digits.
- When the *Tick* button is pressed after editing the final PIN digit, the PIN is checked 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 the Right or Left buttons to cycle to the section to view/change.
- Press the *Up* or *Down* buttons to select the parameter to view/change within the currently selected section.
- To edit the parameter, press the *Tick* button to enter edit mode. The parameter begins to flash to indicate editing.
- Press the *Up* or *Down* buttons to change the parameter to the required value.
- Press the *Tick* button to save the value. The parameter ceases flashing to indicate that it has been saved.
- Press and hold the Reset button to exit the editor without saving changes.
- Press and hold the *Tick* button to exit the editor and save the changes.

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.

MAIN CONFIGURATION EDITOR PARAMETERS

Section	Parameter As Shown On Display	Value
Display	Contrast	0%
op.u,	Language	English, others.
		dd mmm yyyy,
	Current Date And Time	hh:mm:ss
0	Confin To Falls	Default Config /
Config	Config To Edit	Alternative Config
Mains	Display Volts as PhPh	Active / Inactive
	Nominal Voltage	0.0 V
	Under Voltage Stage 1	Active / Inactive
	Under Voltage Stage 1	0.0 V
	Under Voltage Stage 2	Active / Inactive
	Under Voltage Stage 2	0.0 V
	Under Voltage Stage 3	Active / Inactive
	Under Voltage Stage 3	0.0 V
	Under Voltage Stage 4	Active / Inactive
	Under Voltage Stage 4	0.0 V
	Under Voltage Stage 5	Active / Inactive
	Under Voltage Stage 5	0.0 V
	Over Voltage Stage 1	Active / Inactive
	Over Voltage Stage 1	0.0 V
	Over Voltage Stage 2	Active / Inactive
	Over Voltage Stage 2	0.0 V
	Over Voltage Stage 3	Active / Inactive
	Over Voltage Stage 3	0.0 V
	Over Voltage Stage 4	Active / Inactive
	Over Voltage Stage 4	0.0 V
	Over Voltage Stage 5	Active / Inactive
	Over Voltage Stage 5	0.0 V
	High Average Voltage	Active / Inactive
	High Average Voltage	0.0 V
	Nominal Frequency	0.00 Hz
	Under Frequency Stage 1	Active / Inactive
	Under Frequency Stage 1	0.00 Hz
	Under Frequency Stage 2	Active / Inactive
	Under Frequency Stage 2	0.00 Hz
	Over Frequency Stage 1 Over Frequency Stage 1 Trip	Active / Inactive
	Over Frequency Stage 1 Trip Over Frequency Stage 1 Return	0.00 Hz 0.00 Hz
	Over Frequency Stage 1 Return Over Frequency Stage 2	Active / Inactive
	Over Frequency Stage 2	0.00 Hz
	Mains ROCOF Stage 1	Active / Inactive
	Mains ROCOF Stage 1 Hz/S	0.000 Hz
	Mains ROCOF Stage 2	Active / Inactive
	Mains ROCOF Stage 2 Hz/S	0.000 Hz
	Mains ROCOF Stage 3	Active / Inactive
	Mains ROCOF Stage 3 Hz/S	0.000 Hz
	Mains ROCOF Cycles	0
	Mains Vector Shift	Active / Inactive
	Main Vector Shift	0.0 °
	Over Zero Seq Volts	Active / Inactive
	Over Zero Seq Volts	0.0 V
	Under Positive Seq Volts	Active / Inactive
	Over Zero Seq Volts	Active / Inactive
	Over Zero Seq Volts	0.0 V
	Under Positive Seq Volts	Active / Inactive
	Under Positive Seq Volts	0.0 V
	Over Negative Seq Volts	Active / Inactive
	Over Negative Seq Volts	0.0 V
	Asymmetry High	Active / Inactive
	Asymmetry High	0.0 V
	· · · · · · · · · · · · · · · · · · ·	•

Phase Rotation Wrong	Section	Parameter As Shown On Display	Value
Auto-Reset			
Reset If Unhealthy Manual Reset If Unhealthy Fast Reset Boot In Tripped Mode Standard Compliance G59/2 / G59/3 Breaker Failed to Open Use Gen Closed Auxiliary Active / Inactive Use Gen Closed Auxiliary Active / Inactive On 0 n 0 s On 0 n 0 s On 0 n 0 n 0 s On 0 n 0 n 0 s Under Voltage Stage 1 On 0 s Under Voltage Stage 2 On 0 s Over Voltage Stage 3 On 0 s Over Voltage Stage 4 On 0 s Over Voltage Stage 1 On 0 s Over Voltage Stage 3 Over Voltage Stage 3 Over Voltage Stage 4 On 0 s Over Voltage Stage 5 Over Voltage Stage 5 Over Voltage Stage 5 Over Voltage Stage 1 On 0 s Under Frequency Stage 1 On 0 s Under Frequency Stage 1 Over Frequency Stage 2 Over Frequency Stage 1 Over Frequency Stage 1 Over Frequency Stage 2 Over Frequency Stage 1 Over Frequency Stage 2 Over Frequency Stage 2 Over Frequency Stage 1 On 0 n 0 o s Mains ROCOF Delay Stage 3 Over Zero Seq Volts Delay Over Negative Seq Volts Delay Over Seat Reset Delay Fast Reset Delay On 0 o s Supervision Delay On 0 o s Supervision Delay Over Fault Reset Delay On 0 o s			
Manual Reset If Unhealthy Fast Reset Boot In Tripped Mode Standard Compliance G59/2 / G59/3 Breaker Failed to Open Use Gen Closed Auxiliary Active / Inactive Use Gen Closed Auxiliary Active / Inactive Use Gen Closed Auxiliary Active / Inactive Use Gen Closed Auxiliary Active / Inactive Inactive Use Gen Closed Auxiliary Active / Inactive Active / Inactive On 0 n 0 s On 0 n 0 n 0 s Under Voltage Stage 1 Under Voltage Stage 2 Under Voltage Stage 2 Under Voltage Stage 2 Under Voltage Stage 3 Under Voltage Stage 4 Under Voltage Stage 5 Over Voltage Stage 1 Over Voltage Stage 2 Over Voltage Stage 2 Over Voltage Stage 3 Over Voltage Stage 3 Over Voltage Stage 4 Over Voltage Stage 5 Under Frequency Stage 1 Under Frequency Stage 1 Under Frequency Stage 1 Under Frequency Stage 1 Over Frequency Stage 2 Over Frequency Stage 1 Over Frequency Stage 2 Over Frequency Stage 2 Over Frequency Stage 2 Mains ROCOF Delay Stage 1 Over Zero Seq Volts Delay Under Positive Seq Volts Delay Over Negative Seq Volts Delay Over Negative Seq Volts Delay Over Negative Seq Volts Delay Auto-Reset Delay Fast Reset Window Fast Reset Window Fast Reset Delay Over Facult Reset Delay Over Seq Volt Roley Over Seq Vol			
Fast Reset Boot In Tripped Mode Standard Compliance G59/2 / G59/3 Breaker Failed to Open Active / Inactive Use Gen Closed Auxiliary Active / Inactive Under Voltage Timer 0 h 0 m 0 s Scroll Delay 0 h 0 m 0 s Under Voltage Stage 1 0.0 s Under Voltage Stage 2 0.0 s Under Voltage Stage 3 0.0 s Under Voltage Stage 4 0.0 s Under Voltage Stage 5 0.0 s Over Voltage Stage 1 0.0 s Over Voltage Stage 2 0.0 s Over Voltage Stage 3 0.0 s Over Voltage Stage 4 0.0 s Over Voltage Stage 5 0.0 s Over Voltage Stage 6 0.0 s Over Voltage Stage 9 0.0 s Over Voltage Stage 9 0.0 s Over Frequency Stage 1 0.0 s Under Frequency Stage 1 0.0 s Over Frequency Stage 1 0.0 s Over Frequency Stage 1 0.0 s Over Frequency Stage 2 0.0 s Mains ROCOF Delay Stage 1 0.0 s Mains ROCOF Delay Stage 1 0.0 s Mains ROCOF Delay Stage 3 0.0 s Over Zero Seq Volts Delay 0 m 0.0 s Over Negative Seq Volts Delay 0 m 0.0 s Asymmetry High Delay 0 m 0.0 s Asymmetry High Delay 0 m 0.0 s Fast Reset Window 0.0 s Fast Reset Delay 0 h 0 m 0.0 s Supervision Delay 0 n 0.0 s Delayed Fault Reset Delay 0.0 s Delayed Fault Reset Delay 0.0 s Delayed Fault Reset Delay 0.00 s			
Boot In Tripped Mode			
Standard Compliance G59/2 / G59/3			
Breaker Failed to Open			
Use Gen Closed Auxiliary			
CD Page Timer			
Scroll Delay	Timers		
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Over Zero Seq Volts Delay 0 m 0.0 s Under Positive Seq Volts Delay 0 m 0.0 s Over Negative Seq Volts Delay 0 m 0.0 s Asymmetry High Delay 0 m 0.0 s Auto-Reset Delay 0 h 0 m 0.0 s Fast Reset Window 0.0 s Fast Reset Delay 0.0 s Supervision Delay 0 h 0 m 0.0 s Breaker Failed to Open 0.0 s Delayed Fault Reset Delay 0.00 s		Mains ROCOF Delay Stage 2	0.0 s
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Over Negative Seq Volts Delay 0 m 0.0 s Asymmetry High Delay 0 m 0.0 s Auto-Reset Delay 0 h 0 m 0.0 s Fast Reset Window 0.0 s Fast Reset Delay 0.0 s Supervision Delay 0 h 0 m 0.0 s Breaker Failed to Open 0.0 s Delayed Fault Reset Delay 0.00 s		Over Zero Seq Volts Delay	0 m 0.0 s
Asymmetry High Delay 0 m 0.0 s Auto-Reset Delay 0 h 0 m 0.0 s Fast Reset Window 0.0 s Fast Reset Delay 0.0 s Supervision Delay 0 h 0 m 0.0 s Breaker Failed to Open 0.0 s Delayed Fault Reset Delay 0.00 s			
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Supervision Delay 0 h 0 m 0.0 s Breaker Failed to Open 0.0 s Delayed Fault Reset Delay 0.00 s		Fast Reset Window	
Breaker Failed to Open 0.0 s Delayed Fault Reset Delay 0.00 s		Fast Reset Delay	
Delayed Fault Reset Delay 0.00 s			
Delayed Fault reset Pulse Length 0.00 s			
		Delayed Fault reset Pulse Length	0.00 s

ACCESSING THE DISPLAY CONFIGURATION EDITOR

Press and hold the *Tick* button to access the *Display Editor*.

DISPLAY CONFIGURATION EDITOR PARAMETERS

Section	Parameter As Shown On Display	Value
Display	Contrast	0 %
	Language	English