Configu	ration Parameters - Mo	dula (Par	10 1)								
	Contrast	0 (%	)		121	Gene	erator V	'oltage	e Displ	av	On (1), Off (0
102 F	ast Loading Enabled	On (	1), Off (0)		122		s Volta			,	On (1), Off (0
	All Warnings Latched		1), Off (0)		123		erator F			splay	On (1), Off (0
104 L	amp Test at Startup		1), Off (0)		124		ıs Frequ				On (1), Off (0
105 F	Power Save Mode Enable	On (	1), Off (0)		125		ent Disp	olay			On (1), Off (0
	Deep Sleep Mode Enable	On (	1), Off (0)		126	kW [	Display				On (1), Off (0
107 F	Protected Start Enable	On (	1), Off (0)		127	kvar	Display	,			On (1), Off (0
	vent Log Display Format		1), Off (0)		128		Display			On (1), Off (0	
	Power Up Mode		wer Up Mo	ode)	129					On (1), Off (0	
	OTC String Enable	On (1), Off (0) 130 kWh Display						On (1), Off (0			
	RESERVED				131		arh Display				On (1), Off (0
	Din Drotostad Maintananas										
112 F	12 Reset On (1				132	KVA	n Displa	y			On (1), Off (0
113 8					133	RES	ERVED				1
	Jse Module Oil Pressure		1), Off (0)		134		w Load		hina lo	ons	On (1), Off (0
	Jse Module Coolant Temp		1), Off (0)		135		dight In				On (1), Off (0
116 L	Jse Module Engine Hours	On (	1), Off (0)		136		Period				On (1), Off (0
117 L	Jse Module RPM	On (	1), Off (0)		137						On (1), Off (0
	Jse Module Charge Alt	On (	1), Off (0)		138		Audible				On (1), Off (0
	Disable CAN Speed Contr	ol On (	1), Off (0)		139		sducer				On (1), Off (0
	OT Position		(0), Load (	1)	140		ish Tex			чу	On (1), Off (0
					140	Eligi	isii iex	LIVIOU	е		Oli (1), Oli (
	ration Parameters - CA						E 011 E				0 (4 ()
201 C	CAN Alternative Engine Sp		n (1), Off (		03		ECU D				0 (Action)
	CAN ECU Data Fail Armin		(Arming)	_	04	CAN	ECU D	ata F	ail Deli	ay	0 s
	ration Parameters - Dig	ital Input	s (Page 3)	1							
301	Digital Input A Source										out Source)
302	Digital Input A Polarity										larity)
303	Digital Input A Action (If									0 (Ac	
304	Digital Input A Arming (I									0 (An	ming)
305	Digital Input A Activation	n Delay (I	f Source =	User Co	onfig)	)				0 s	
306	Digital Input B Source									0 (Inp	out Source)
307	Digital Input B Polarity									0 (Po	larity)
308	Digital Input B Action (If	Source =	User Conf	fia)						0 (Ac	tion)
309								0 (An			
310	Digital Input B Activation Delay (If Source = User Config)							0 s			
311							0 (Int	out Source)			
312	Digital Input C Polarity								0 (Po		
313	Digital Input C Action (If	Source =	User Con	fia)						0 (Ac	
314	Digital Input C Arming (									0 (An	
315	Digital Input C Activation				onfin	)				0 s	9)
316	Digital Input D Source	. Doidy (	· oou.co	000. 0	ormg						out Source)
317	Digital Input D Source									0 (Po	
318	Digital Input D Action (If	Course =	Lloor Con	Fig.)						0 (Ac	
319											
320	Digital Input D Arming (I Digital Input D Activation	Doloy (	f Source =	llig)	Config)					0 (An	ning)
				USEI C	onlig	)				0 s	
	ration Parameters – Ou										
		0 (Outpu		407			tput D \$				tput Source)
102 Di	gital Output A Polarity	0 (Outpu	t Polarity)	408	Digit	tal Ou	tput D I	Polarit	ty		tput Polarity)
103 Di	gital Output B Source	0 (Outpu	Source)		409 Digital Output E S				Э	tput Source)	
		0 (Outpu		410							
		0 (Outpu		411	Digit	al Output F Source					tput Source)
		0 (Outpu		412	Digit	tal Ou	tput F F	Polarit	у	0 (Ou	tput Polarity)
onfigu	ration Parameters - Tim	iers (Pag	e 5)								
	Mains Transient Delay		ETS Soler	noid Hol	ld		525	Page	Delay	,	
502	Start Delay	514	Failed to S	Stop De	lay		526	Cooli	ing Tim	ne at lo	ile
	Preheat Timer	515	Generator			elav	527				Save Delay
	Crank Time	516	Transfer D				528		ole Ala		
	Crank Rest Time	517	Breaker Ti		e		529	Fuel	Pull in	Coil D	uration
	Smoke Limiting	518				-	530				
						531	ECU Override Time ECU Periodic Wakeup Period				
						532	Post-Heat Timer				
			Delayed Load Output 2								
				layed Load Output 3 533 layed Load Output 4 534							
	Narm Up Time	522					534	ıvıax	JIAT P	ause I	mier
	Return Delay	523	Power Say								
	Cooling Time		Deep Slee		e Dela	ıy					
	nput Polarity		out Polarit				Alarm				
Index				larity			Ind		Actio		
0 Close to Activate 0		0 En	ergise			C			rical Tı	rip	
1	Open to Activate		1 De	-Energi	ise		1		Shuto	lown	
							2	,	Warn	ing	
C C	em .		Digital	Input	Δlarm	Arm	ina		Power	r Un M	ode
				might to	-11:11		115	_			
	Type		Indo	y A	rmin	a			Ind	lex	Mode
C Syst	Type 2 Phase 3 Wire (L1-L	3)	Inde 0	x A	lways	<u>g</u>		_	Ind		Mode Stop

From Safety On From Starting

3 Never

Manual Auto

2 Phase 3 Wire (L1-L2)

Functionality in DSE4520 MKII only.

Functionality in DSE4510 MKII & DSE4520 MKII

3 Phase 3 Wire 3 Phase 4 Wire

	guration Parameters – Genera Alternator Fitted		622	Over Frequency Warning Trip 0.0 Hz		
		On (1), Off (0)		Over Frequency Shutdown		
602	Alternator Poles	0	623	Enable On (1)	, Off (0	
603	Under Voltage Shutdown Enable	On (1), Off (0)	624	Over Frequency Shutdown Trip 0.0 Hz	:	
604	Under Voltage Trip Shutdown	0 V	625	Generator AC System 0 (AC System	n)	
605	Under Voltage Warning Enable	On (1), Off (0)	626			
606	Under Voltage Warning Trip	0 V	627	CT Secondary 1 A, 5	A	
	RESERVED	ip ov				
	Loading Voltage	0 V	628 629		, Off (0	
609	Over Voltage Warning Enable	On (1), Off (0)	630	Delayed Over Current Alarm Enable On (1)	, Off (0	
610	Over Voltage Warning Return	0 V	631	Delayed Over Current Alarm		
014		0.1/		ACTOL	,	
	Over Voltage Warning Trip	0 V	632	Over Current Delay Time 0 s Over Current Trip 0 %		
	Over Voltage Shutdown Trip Under Frequency Shutdown		633			
613	Enable	On (1), Off (0)	634	kW Rating 0 kW		
614	Under Frequency Shutdown Tri	p 0.0 Hz	635	Over kW Protection Enable On (1)	. Off (0	
	Under Frequency Warning					
615	Enable	On (1), Off (0)	636	Over kW Protection Action 0 (Acti	on)	
616	Under Frequency Warning Trip	0.0 Hz	637	Over kW Protection Trip 0 %		
617	RESERVED		638	Over kW Protection Trip Delay 0 s		
618	Loading Frequency	0.0 Hz	639		, Off (0	
619	Nominal Frequency	0.0 Hz	640	Over kW Protection Return 0 %		
620	Over Frequency Warning	On (1) Off (0)	641	Nominal Voltage 0 V		
	Enable	On (1), Off (0)	041	1 V	0 V	
621	Over Frequency Warning Return	n 0.0 Hz			_	
Config	juration Parameters – Mains (	Page 7)				
701	Mains AC System	0 (AC System)	709	Over Voltage Level Trip 0 V		
702		On (1), Off (0)	710	Under Frequency Enable On (1	), Off (	
703		On (1), Off (0)	711	Under Frequency Trip 0.0 Hz		
704		On (1), Off (0)	712	Under Frequency Return 0.0 Hz		
705		O V	713		), Off (	
706		0 V	714			
707		On (1), Off (0)		Over Frequency Trip 0.0 Hz	7	
708		) V				
		(Baga 9)				
	guration Parameters – Engine			Start on Low Battery		
801	Start Attempts	0	833	2 Engine Run Duration 0 s		
802	Over Speed Overshoot	0 %	83			
803	Over Speed Delay	0 s	834			
804	Gas Choke Timer	0 s	83		, Off (0	
805	(Gas Engine Only) Gas On Delay	0 s	830	6 J1939-75 Alarms Enable On (1)	, Off (0	
	(Gas Engine Only) Gas Ignition Off Delay		1	``	, (-	
806	(Gas Engine Only) Crank Disconnect On Oil	0 s	83	7 Engine CAN Source Address 0 Instrumentation CAN Source		
807	Pressure Enable	On (1), Off (0)	83	8 Address 0		
808	Check Oil Pressure Prior to Starting	On (1), Off (0)	839	9 RESERVED		
809	Crank Disconnect On Oil Crank Disconnect On	0.00 Bar	840	0 Tier 4 Home Screen Enable On (1)	, Off (0	
810	Frequency	0.0 Hz	84	1 Start Pause Time 0 s		
811	Crank Disconnect On Engine Speed	0 RPM	842		, Off (0	
812	Under Speed Enable	On (1), Off (0)	843			
813	Under Speed Trip	0 RPM	844		, Off (0	
814	Over Speed Trip	0 RPM	84	5 Post-heat Temperature 0 °C		
815	Low Battery Voltage Enable	On (1), Off (0)	840		, Off (0	
816	Low Battery Voltage Warning	0.0 V	84			
817	Low Battery Voltage Return	0.0 V	848			
818	Low Battery Voltage Delay	0:00:00	849		, Off (0	
819	High Battery Voltage Enable	On (1), Off (0)	850			
820	High Battery Voltage Return	0.0 V	85			
821	High Battery Voltage Warning	0.0 V	853	2 RESERVED		
822	High Battery Voltage Warning Delay	0 s	85	3 Tank Bund Level High Alarm 0 (Acti	on)	
823	Charge Alt Shutdown Enable	On (1), Off (0)	854	4 Fan Speed Low Arming 0 (Arm	ing)	
824	Charge Alt Shutdown Trip	0.0 V	85	5 Fan Speed Low Action 0 (Acti		
825	Charge Alt Shutdown Delay	0 s	850			
826	Charge Alt Warning Enable	On (1), Off (0)	85		ing)	
827	Charge Alt Warning Trip	0.0 V	85			
828	Charge Alt Warning Delay	0.6 T	859	Fuel Low Switch Activation		
829	Start on Low Battery Enable	On (1), Off (0)	86	Crank Disconnect on Charge	, Off (0	
	Start on Low Battery Threshol	d 0.0 V	86	Crank Disconnect on Charge		
830						
830	Start on Low Battery Start Del		- 00	Alt Voltage 0.0 v		

901-902														
903	Low Oil Pressure Enable On (1), Off (0)													
904 905	Low Oil Pressure Trip Oil Pressure Sensor Open (		0 Bar											
906-907			Oii (	On (1), Off (0)										
908	High Engine Temperature T							0.00 °C						
909	Temperature Sensor Open				On (1), Off (0)									
910-929	RESERVED													
930	Fuel Sensor C Low Alarm A			Shutdown (2), Electrical Trip (1), Disabled (0)										
931	Fuel Sensor C Low Shutdov			0 %	0 %									
932	Fuel Sensor C Low Shutdov			0 s										
933	Fuel Sensor C Low Pre-Alar			On (1), Off (0)										
934	Fuel Sensor C Low Pre-Alar			0 %										
935 936	Fuel Sensor C Low Pre-Alai Fuel Sensor C Low Pre-Alai				0 %									
937	Fuel Sensor C High Pre-Ala				0 s On (1), Off (0)									
938	Fuel Sensor C High Pre-Ala			0 %	1), Oli (0)									
939	Fuel Sensor C High Pre-Ala			0 %										
940	Fuel Sensor C High Pre Ala			0 s										
941	RESERVED													
942	Fuel Sensor C High Alarm A	Action		Shut	tdown (2), Electrica	l Trip	(1), Disa	bled (0)						
943	Fuel Sensor C High Alarm 1			0 %										
944	Fuel Sensor C High Alarm [			0 s										
945-967														
968	Fuel Usage Alarm (Run) Arr				1), Off (0)									
969	Fuel Usage Alarm (Run) Ac				ction)									
970	Fuel Usage Alarm (Run) Tri				0 %									
971 972		Fuel Usage Alarm (Run) Return					0 %							
972		Fuel Usage Alarm (Stopped) Arming					0 (Arming)							
973		Fuel Usage Alarm (Stopped) Action					0 (Action) 0 %							
975		Fuel Usage Alarm (Stopped) Trip					0 %							
976	Low Coolant Level Arming	Fuel Usage Alarm (Stopped) Return					0 (Arming)							
977	Low Coolant Level Action		ction)											
978	Low Coolant Level Trip	0 %	5.1.5117											
979	Low Coolant Level Return			0 %										
980	Low Coolant Level Delay			00:0	0:00									
981	Low Coolant Level Open Ci	rcuit Arming		On (	1), Off (0)									
982	Low Coolant Level Switch A				0 (Arming)									
983	Low Coolant Level Switch A				0 (Action) 00:00:00									
984	Low Coolant Level Switch D				On (1), Off (0)									
985	High Engine Temp Pre-Alar High Engine Temp Pre-Alar			On (	0.00 °C									
986 987	High Engine Temp Pre-Alar			0.00										
				0.00	C									
onfigur	ration Parameters - Schedule	r (Page 10)	_		and determinant		0 (1)	Nff (0)						
	1001 1002			able Sch	Run On or Off Load		On (1), C							
	1002			neduler										
1004 1	008, 1012, 1016, 1020, 1024, 1	028 1032			(Entry 1-8)	Weekly (0), Monthly (1) 0:00:00								
	009, 1013, 1017, 1021, 1025, 1			y (Entry		nday)								
	010, 1014, 1018, 1022, 1026, 1				(Entry 1-8) 0 (1=Monday ek (Entry 1-8) 1, 2, 3 or 4									
	011, 1015, 1019, 1023, 1027, 1				ntry 1-8)		0 s							
onfigur	ation Parameters - Time (Pag	ne 11)												
1101	Time of Day	0:00:00		1104	Day of Month			1-31						
1102	RESERVED			1105	Month of Year			1-12						
1103	RESERVED			1106	Year			0-99						
onfig <u>u</u> r	ration Parameters – Maintena	nce Alarms	(Pag	je 12)										
1201	Oil Maintenance Alarm Enable			1206	Air Maintenance A Hours			0 h						
1202	Dil Maintenance Alarm Action 0 (Action)			1207	Fuel Maintenance Alarm Enable On (1), O									
1203	Oil Maintenance Alarm Engine 0 h			1208	.,									
	Air Maintenance Alarm Enable On (1), Off (			1209	Fuel Maintenance Engine Hours	Alar	m	0 h						
1205	Air Maintenance Alarm Action	0 (Action)		ĺ										

Configuration Parameters – Alternate Configuration 2 (Page 30)
3002-3057 Refer to the DSE Publication 057-260 DSE4510 MKII & DSE4520MKII Operators Manual for

Configuration Parameters – Alternate Configuration 3 (Page 40)

4002-4057 Refer to the DSE Publication 057-260 DSE4510 MKII & DSE4520MKII Operators Manual for

3002-3057

4002-4057

configuration parameters.

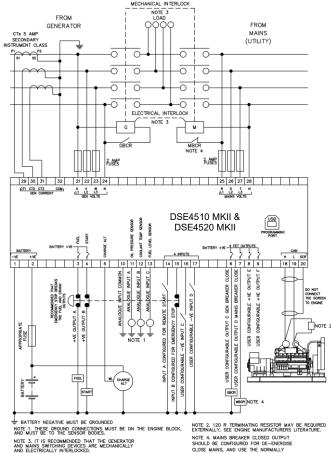
configuration parameters.

Ing	out Sources					
0	User Configured		Mains Load Inhibit	41	Alternative Configuration 2	
1	1 Remote Start on Load		RESERVED		Alternative Configuration 3	
2	2 RESERVED		External Panel Lock		Emergency Stop	
3	3 Auto Start Inhibit		Auxiliary Mains Fail	44	RESERVED	
4	Lamp Test	21	Oil Pressure Switch	45	Maintenance Reset Oil	
5	Alarm Mute	22	Coolant Temperature Switch	46	Maintenance Reset Air	
6	Alarm Reset	23	RESERVED	47	Maintenance Reset Fuel	
7	7 RESERVED		Simulate Mains Available	48	RESERVED	
	8 Simulate Start Button		Remote Start Off Load	49	RESERVED	
9	9 Simulate Stop Button		RESERVED	50	DPF Auto Regen Inhibit	
10	RESERVED	31	Auto Restore Inhibit	51	DPF Force Regeneration	
11	11 Simulate Auto Button		RESERVED	52	DPF Regeneration Interlock	
12	12 RESERVED		Low Fuel Level Switch	53	Water in Fuel	
13	Close Generator Open Mains	34	Smoke Limiting	54	Fuel Bund Level High	
14	14 Generator Load Inhibit		RESERVED	55	Fan Speed Low	
15	RESERVED	39	Main Configuration	56	Low Coolant Level Switch	
16	Close Mains Open Generator	40	Alternative Configuration 1	57	Wait To Start	

	INLOCITYED		33	Main Comiguration		50	LOW COOIAITI LEVEL SWITCH
16	Close Mains Open General	tor	40	Alternative Configuration	1	57	Wait To Start
Ou	tput Sources						
0	Not Used	46	Mains Lo	ow Frequency	92	RESE	RVED
1	Air Flap Relay			ow Voltage	93	RESE	RVED
2	Audible Alarm	48	Oil Press	sure Sensor Open Circuit	94	RESE	RVED
3	Battery High Volts Warning	49	Open Ge	enerator Output	95	Over	Speed Overshoot Alarm
4	Battery Low Volts Warning	50	Open Ge	enerator Output Pulse	96	Over	Frequency Overshoot Alam
5	CAN ECU Data Fail	51	Open Ma	ains Output	97	Displa	ay Heater Fitted and Active
6	ECU (ECM) Warning	52	Open Ma	ains Output Pulse	98	RESE	RVED
7	ECU (ECM) Shutdown	53	Over Fre	equency Shutdown	99	SCR I	Inducement
8	CAN ECU Power	54	Over Sp	eed Shutdown	100	DEF L	_evel Low
9	CAN ECU Stop	55	Preheat	During Preheat Timer	101	DPF A	Auto Regeneration Inhibit
10	Charge Alternator Shutdown	56	Preheat	Until End of Crank	102	DPF F	orced Regeneration
11	Charge Alternator Warning	57	Preheat	Until End of Safety Timer	103	DPF N	None Mission State
12	Close Generator Output	58	Preheat	Until End of Warming	104	DPF F	Regeneration in Progress
13	Close Generator Output Pulse	59	Smoke L	imiting	105	DPF F	Regen Interlock Active
14	Close Mains Output	60	Start Re	lav	106	DPTC	Filter
15	Close Mains Output Pulse			ature Sensor Open Circuit			Active
	Combined Mains Failure			requency Shutdown			r in Fuel
	Common Alarm			peed Shutdown			Pull in Coil
	Common Electrical Trip			for Manual Restore			rator at Rest
	Common Shutdown			Sensor C High Alarm			Tank Bund Level High
	Common Warning			Sensor C High Pre-Alarm			Preheat
	Cooling Down			Sensor C Low Pre-Alarm			Heater
	Digital Input A			Sensor C Low Alarm			r Cooler
	Digital Input B		RESER\				d to Gen
	Digital Input C		RESER\				d to Mains
	Digital Input D		RESER\		117		rator Under Frequency
26	RESERVED	72	RESER\	/ED	118		rator Over Frequency
27	RESERVED	73	Eugl Sor	nsor High Alarm	110	Cono	rator Low Voltage Warning
	RESERVED			nsor High Pre-Alarm			rator High Voltage Warning
	Emergency Stop			nsor Low Pre-Alarm			Config Selected
	Energise to Stop			isor Low Pre-Alaim			onfig 1 Selected
	Fail to Start			Load Output 1			onfig 2 Selected
	Fail to Stop			Load Output 2			onfig 3 Selected
	Fuel Relay			Load Output 3			ole Sensor A High Alarm
	Gas Choke On			Load Output 4			le Sensor A High Pre-Alam
	Gas Ignition			Maintenance			le Sensor A Low Alarm
	Generator Available			Maintenance			le Sensor A Low Pre-Alarm
37	Generator High Voltage			er Maintenance			le Sensor A Open Circuit
38	Alarm Generator Low Voltage Alarm	⊩		in Stop Mode	130	Fan S	Speed Low
20	kW Overload Alarm	05	Custom	n Auto Mode	121	Fuell	Jsage Alarm
	Over Current Immediate						
40	Warning			n Manual Mode			Coolant Level
41		87	RESER\	/ED	133	Low C	Coolant Level Open Circuit
42	High Coolant Temp Shutdown		-	e Input A (Digital)			ng To Start
43	Low Oil Pressure Shutdown			e Input B (Digital)	135	High (	Coolant Temp Pre-Alarm
	Mains High Frequency			e Input C (Digital)			
45	Mains High Voltage	91	RESER\	/ED	]		
				· · · · · · · · · · · · · · · · · · ·			

Functionality in DSE4510 MKII & DSE4520 MKII Functionality in DSE4520 MKII only

# TYPICAL WIRING DIAGRAM



CLOSE MAINS, AND USE THE NORMALLY CLOSED CONTACTS OF MBCR

DIMENSIONS

140 mm x 113 mm x 43 mm (5.5" x 4.4" x 1.7")

PANEL CUTOUT 118 mm x 92 mm (4.6" x 3.6")

### TERMINALS

Tightening Torque: 0.5 Nm (4.5 lb-in) Conductor Size: 0.5 mm² to 2.5 mm² (AWG 20 to AWG 13)

NOTE: A larger version of the typical wiring diagram is included in the product's operator manual. Refer to DSE Publication: 057-260 DSE4510 MKII & DSE4520 MKII Operator Manual

NOTE: Terminals 25, 26, 27 & 28 are not fitted to the DSE4510 MKII

# **DSE**

### **DEEP SEA ELECTRONICS**

DSE4510 MKII & DSE4520 MKII Installation Instructions Applicable to module version 3.0.0 and upwards.

## **EDITING A PARAMETER**

- Press the Stop/Reset Mode (-) and Auto Mode (✓) buttons together to enter the editor \* mode
- Press the *Up* or *Down* navigation buttons to cycle through the front panel editor in increments of 100.
- Press the Manual/Start Mode  $\mathbf{U}(+)$  or Stop/Reset Mode cycle through the front panel editor in increments of 1.
- When viewing the parameter to be edited, press the Auto Mode and the value begins to flash.
- Press the Manual/Start Mode (+) or Stop/Reset Mode buttons to adjust the value to the required setting.
- Press the Auto Mode
   The Auto Mode ( ✓ ) button to save the current value, the value ceases flashing.
- Press and hold the *Auto Mode* ( ) button to save and exit the editor, the configuration icon is removed from the display.

▲NOTE: Pressing and holding the *Manual/Start Mode* **(** + ) or Stop/Reset Mode ( - ) buttons will give auto-repeat functionality.

NOTE: More comprehensive module configuration is possible via PC configuration software. For further details of module configuration, refer to DSE Publication: 057-258 DSE4510 MKII & DSE4520 MKII Configuration Suite PC Software Manual.

Deep Sea Electronics Ltd Tel: +44 (0)1723 890099

Email: sales@deepseaelectronics.com Web: www.deepseaelectronics.com

Deep Sea Electronics Inc Tel: +1 (815) 316-8706

Fax: +1 (815) 316-8708 Email: USAsales@deepseaelectronics.com Web: www.deepseaelectronics.com

## REQUIREMENTS FOR UL CERTIFICATION

Specification	Description
Screw Terminal Tightening Torque	• 4.5 lb-in (0.5 Nm)
Conductors	Terminals suitable for connection of conductor size 13 AWG to 20 AWG (0.5 mm² to 2.5 mm²).
	Conductor protection must be provided in accordance with NFPA 70, Article 240
	Low voltage circuits (35 V or less) must be supplied from the engine starting battery or an isolated secondary circuit.
	• The communication, sensor, and/or battery derived circuit conductors shall be separated and secured to maintain at least 1/4" (6 mm) separation from the generator and mains connected circuit
	conductors unless all conductors are rated 600 V or greater.
Current Inputs	Must be connected through UL Listed or Recognized isolating current transformers with the secondary rating of 5 A max.
Communication Circuits	Must be connected to communication circuits of UL Listed equipment
DC Output Pilot Duty	• 0.5 A
Mounting	Suitable for use in type 1 Enclosure Type rating with surrounding air temperature -22 °F to +158 °F (-30 °C to +70 °C)
-	Suitable for pollution degree 3 environments when voltage sensing inputs do not exceed 300 V. When used to monitor voltages over 300 V device to be install in an unventilated or filtered ventilation enclosure to maintain a pollution degree 2 environment.
Operating Temperature	• -22 °F to +158 °F (-30 °C to +70 °C)
Storage Temperature	• -40 °F to +176 °F (-40 °C to +80 °C)