

Datasheet



DCU 210E Engine Controller Marine Watch LT-ONE Alarm Panel

Part#: 1006475 (DCU 210E Engine Controller)
1500074 (Marine Watch LT-ONE Alarm Panel)

Rev. January 30, 2024

Interfaces

Section	Qty.	Min	Typ.	Max	Unit	Comment
Power Supply, Vcc	1	8 -	12/24 0.5	32 2	VDC A	Current consumption @ 24 VDC.
Flexible I/O	19					Can be configured as described in the Flexible I/O section below.
Relay	2	- 0	- -	48 1	VDC A	Potential free form C contacts. Internally fused.
Tacho	1	0.1 4	5 -	10 32	kHz Vpp	Magnetic pickup
Thermistor / PT100 Input	2	50 0	- -	60000 800	Ω $^{\circ}\text{C}$	Accuracy: $\pm 2.0\%$. With optional wire resistance comp.
CAN bus #1	1	-	250	-	kbps	SAE J1939
CAN bus #2	1	-	250	-	kbps	SAE J1939
Ethernet	1	-	10 / 100	-	Mbps	Auto Crossover
Modbus TCP	1	-	10 / 100	-	Mbps	
Modbus RTU	1	9600	19200	115200	baud	8 bit, even parity, 1 stop bit. Failsafe biasing, internal termination
RIO Link Connection	1	-	19200	-	baud	8 bit, even parity, 1 stop bit
USB Port	1	-	-	480	Mbps	USB 2.0 Hi-speed Memory Interface

Flexible I/O

Section	Qty.	Min	Typ.	Max	Unit	Comment
Digital Input	19	8 0	- -	Vcc 2	V	High level Low level
Digital Output	19	- 0	Vcc-0.5 -	- 0.2	V A	Power supply - 0.5 V Current limited
4 – 20 mA Input	19	0	4-20	22	mA	Accuracy: $\pm 0.5\%$ of typical range
Analogue Input	19	0	-	Vcc	V	Accuracy: $\pm 0.05\text{ V}$
24 V Supply Output	19	- 0	Vcc-0.5 -	- 0.2	V A	Current limited
0 V Supply Output	4	0 0	0.1 -	- 0.5	V A	
5 V Supply Output	1	4.8 0	5.0 -	5.2 0.1	V A	For supply of 0-5 V sensors etc. Current limited.

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Screen

Section	Width	Typ.	Height	Unit	Comment
Size	-	5.7	-	inch	
Resolution	640	-	480	pixels	
Pixel Density		140		PPI	
Colors	-	16.7M	-	colors	

	Condition	Min	Typ.	Max	Unit	Comment
Viewing angle	horizontal	±60	±65	-	Deg.	Contrast ratio >10:1
	vertical	±47	±52	-		
Brightness	Backlight 100 %	400	450	-	cd/m ²	

Operator Interface

- Capacitive touch interface
- Touch buttons
 - Part# 1006475: 4 buttons
 - Part# 1500074: 2 buttons

Connectors

- 4 x 12 pin Deutsch DT06-12SA (Mating connector)
- USB 2.0 Type A Host Port (Service only)
- Ethernet RJ45 IP67 Bajonett Black (Use included RJ45 Plug Kit)

Measurements and Weight

Section	Condition	Weight	Width	Height	Depth	Unit	Comment
Size	Bezel	-	167	135	68	mm	Depth without connectors
	All-glass	-	162	130	67		
Cut out		-	155	123	-	mm	Access depth: 90 mm
Weight		0.8	-	-	-	kg	

Environmental

Section	Condition	Min.	Typ.	Max.	Unit	Comment
Operating Temperature	Operational	-25	-	+70	°C	DNV No. 2.4 Location Class D, Open deck
Storage Temperature	Not powered	-30	-	+85	°C	
Enclosure Ingress Protection Rating	Operational	IP56	-	-	-	
Vibration	Operational	-	4	-	g	IEC 60068-2-6 Fc

Testing & Approvals

Tested according to DNV Standard for Certification DNV No. 2.4, harmonized with IACS UR E10 and IEC 60092-504.

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Validity of Information

Data valid at revision date. Auto-Maskin reserves the right to make improvements and changes of specification at any time.