

Datasheet



RP 480i / Marine Watch S-ONE Alarm Panel

Part#: 1500061 (RP 480i)
1500073 (Marine Watch S-ONE Alarm Panel)

Rev. October 4, 2024

Interfaces

Section	Ch.	Cond.	Min.	Typ.	Max.	Unit	Comment
Power Supply, Vcc	1	@ 24 VDC	8 -	24 0.8 ¹	32 5.5 ²	VDC A	Max ripple 10% without exceeding Min and Max values.
Ignition ³	1						Ignition Signal
Flexible I/O	8						Can be configured as described in the Flexible I/O section below.
Relay ⁴	1		- 0	- -	48 0.7	VDC A	Potential free form C contacts. Internally fused.
CAN bus ³	1		-	250	-	kbps	SAE J1939.
NMEA 2000 ³	1		-	250	-	kbps	Isolated CAN interface supporting the NMEA 2000 protocol.
Ethernet	2		-	10 / 100	-	Mbps	Auto Crossover
Modbus TCP	1		-	10 / 100	-	Mbps	Ethernet
Modbus RTU ³	1		9600	19 200	115 200	baud	8 bit, even parity, 1 stop bit. Failsafe biasing, internal termination.
USB Port	3		-	-	480	Mbps	USB 2.0 Hi-speed Interface
HDMI ³	1						HDMI for external displays

Flexible I/O

Section	Ch.	Cond.	Min.	Typ.	Max.	Unit	Comment
Digital Input	8		8 0	- -	Vcc 2	VDC	High Level Low Level
Digital Output	8		- 0	Vcc - 0.5 -	- 0.5	VDC A	Power supply - 0.5 V Current limited
4-20 mA Input ³	8		0	4-20	25	mA	Accuracy: ± 0.5% of typical range
Analogue Input ³	8		0	-	Vcc	V	Accuracy: ± 0.05 V
24 V Supply Output ³	8		- 0	Vcc - 0.5 -	- 0.5	VDC A	Current limited.

Screen

Section	Conditions	Width	Typ.	Height	Unit	Comment
Size	-	-	12.1	-	inches	
Resolution	-	1280	-	800	pixels	
Pixel Density	-	-	125	-	PPI	
Colors	-	-	16.7M	-	colors	

	Conditions	Min.	Typ.	Max.	Unit	Comment
Viewing angle	horizontal/ vertical	±70	±88	-	Deg.	Contrast ratio >10:1
Brightness	Backlight 100%	280	400	-	cd/m ²	

¹ Maximum backlight and no outputs enabled.

² All outputs are maximum loaded.

³ Not in use.

⁴ Not in use for the Marine Watch S-ONE Alarm Panel.

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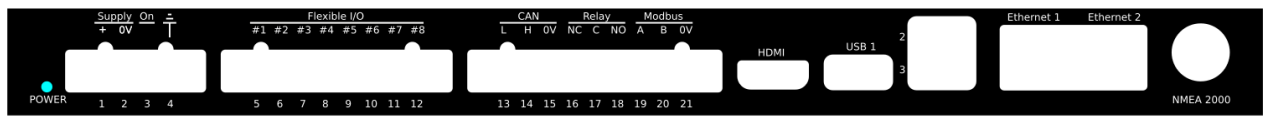
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Operator Interface

- Capacitive touch interface.
- 4 tactile feedback buttons.
- NFC interface for user authentication.⁵

Connectors



Measurements and Weight

Section	Weight	Width	Height	Depth	Unit	Comment
Size	-	333	202	51	mm	
Cutout	-	321.0	190.5	-	mm	
Weight	3.0	-	-	-	kg	

Environmental

Section	Condition	Min.	Typ.	Max.	Unit	Comment
Operating Temperature	Operational	-25	-	+55	°C	DNVGL-CG-0339 Location Class D, Open deck
Storage Temperature	Not powered	-25	-	+80	°C	
Enclosure Ingress Protection Rating	Operational	IP56	-	-	-	Front only.

Testing & Approvals

Tested according to DNV Standard for Certification DNVGL-CG-0339, harmonised with IACS UR E10 and IEC 60092-504.

Type approved. See Auto-Maskin web page for type approval certificates.

Validity of Information

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

⁵ Not in use.