

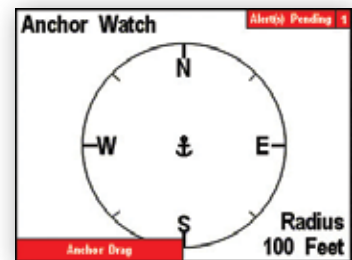
# ALM100

## Alarm Module

The Alarm Module generates visual and audible alerts for any monitored condition. The Alarm Module includes an extremely loud 105 dB SPL Piezoelectric sounder, along with a red high-brightness LED to indicate an alarm condition. A second green LED indicates that the Alarm Module is powered and ready to be triggered. The audible alarm can sound any one of 32 distinct pre-programmed patterns to indicate different alerts. The Alarm Module can be triggered by alarms generated by Maretron's N2KView® Vessel Monitoring Software, or by Maretron's Color Graphics Displays (DSM Series). The Alarm Module mounts in a standard electric box or can be flush mounted on any surface. Completely waterproof, the Alarm Module can be mounted inside or outside the vessel.

### Product Features

- NMEA 2000® Network Interface
- Super loud 105dB audible alarm
- Bright Red LED visual alarm
- Green LED status indicator
- Mount in standard electrical wall box or flush mount directly in wall
- 32 selectable alarm patterns
- Waterproof - can be mounted indoors or outdoors

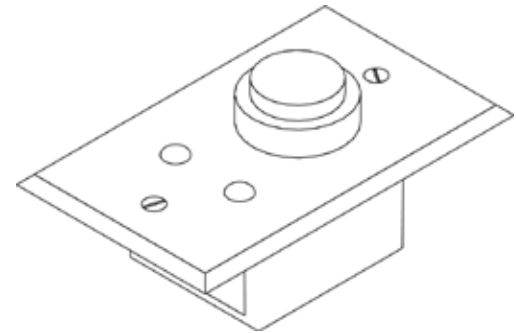
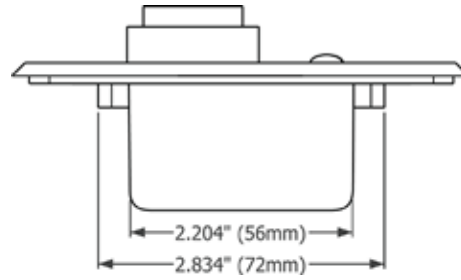
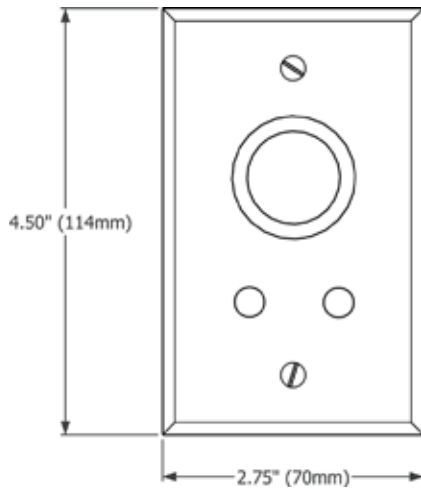


DSM Series Screen Shots

*ALM100 requires configuration if two or more exist on a single network (Maretron DSM Series, USB100, or IPG100 needed to configure)*

### PRODUCTS

PART NUMBER	DESCRIPTION
ALM100-01	Alarm Buzzer with Black Cover Plate
CP-BK-ALM100	ALM100 Black Cover Plate
CP-WH-ALM100	ALM100 White Cover Plate



## SPECIFICATIONS

PARAMETER	VALUE	COMMENT
Annunciator Volume	105 dB SPL	Mechanical Volume Control
Annunciator Frequency	2.9 kHz	

## NMEA 2000® PARAMETER GROUP NUMBERS (PGNs)

PARAMETER	PGN#	PGN NAME	DEFAULT RATE
Periodic Data PGNs	128720	Proprietary Alarm Status	1 time/second
	126464	PGN List (Transmit and Receive)	N/A
Response to Requested PGNs	126996	Product Information	N/A
	126998	Configuration Information	N/A
	059392	ISO Acknowledge	N/A
Protocol PGNs	059904	ISO Request	N/A
	060928	ISO Address Claim	N/A
	065240	ISO Address Command	N/A
	126720	NMEA Request/Command/Acknowledge	N/A
	126720	Device Configuration Information	N/A
Maretron Proprietary PGNs	130818	Device Label	N/A
	130824	Annunciator	1 time/second

## ELECTRICAL

PARAMETER	VALUE	COMMENT
Operating Voltage	9 to 32 Volts	DC Voltage
Power Consumption	100mA	NMEA 2000® Interface
Load Equivalence Number (LEN)	2	NMEA 2000® Spec. (1LEN = 50mA)
Reverse Battery Protection	Yes	Indefinitely
Load Dump Protection	Yes	Energy Rated per SAE J1113

## MECHANICAL

PARAMETER	VALUE	COMMENT
Size	2.75" x 4.50" x 2.00" (70mm x 114mm x 51mm)	Including wall plate – Mounts in standard single-gang electrical box
Weight	13 oz. (368.5g)	

## ENVIRONMENTAL

PARAMETER	VALUE
IEC 60945	Exposed
Degree of Protection	IP67
Operating Temperature	-25°C to 55°C
Storage Temperature	-40°C to 70°C
Relative Humidity	93%RH @40° per IEC60945-8.2
Vibration	2-13.2Hz @ ±1mm, 13.2-100Hz @ 7m/s <sup>2</sup> per IEC 60945-8.
Rain and Spray	12.5mm Nozzle @ 100liters/min from 3m for 30min per IEC 60945-8.8
Solar Radiation	Ultraviolet B, A, Visible, and Infrared per IEC 60945-8.10
Corrosion (Salt Mist)	4 times 7 days @ 40°C, 95%RH after 2 hour Salt Spray Per IEC 60945-8.12
Electromagnetic Emission	Conducted and Radiated Emission per IEC60945-9
Electromagnetic Immunity	Conducted, Radiated, Supply, and ESD per IEC 60945-10
Safety Precautions	Dangerous Voltage, Electromagnetic Radio Frequency per IEC 60945-12

## CERTIFICATIONS

PARAMETER	COMMENT
NMEA 2000® Standard	Level A
Maritime Navigation and Radio Communication Equipment & Systems	IEC 61162-3
Maritime Navigation and Radio Communication Equipment & Systems	IEC 60945
FCC and CE Mark	Electromagnetic Compatibility