

MBB100 *Black Box Vessel Monitoring and Control*

Maretron's Black Box (MBB100) is a dedicated processing unit that comes preloaded with Maretron's N2KView® vessel monitoring and control software. Unlike a PC that allows any software to be loaded, the MBB100 runs only N2KView® software making it extremely stable and dedicated to monitoring and controlling your vessel.

The MBB100 is ruggedized for marine use and includes a solid state disk drive to withstand the pounding associated with waves. And since the MBB100 dissipates less than 20 watts, there is no need for internal cooling fans that are noisy and wear out causing electronics to overheat and fail.

The MBB100 connects to a monitor through a VGA connector and associated touch screen through a USB or serial port connection. Alternatives to controlling the N2KView® software through a touch screen include keyboards, mice, or track balls connected through USB. The MBB100 has an Ethernet port for communicating with an NMEA 2000® network through Maretron's Internet Protocol Gateway (IPG100). Although the MBB100 comes pre-installed with the N2KView® software, a separately purchased license plugged into the IPG100 is required (see IPG100 on page 32 for more details). The Ethernet port is also used for connecting Internet Protocol (IP) cameras for viewing within the N2KView® software.

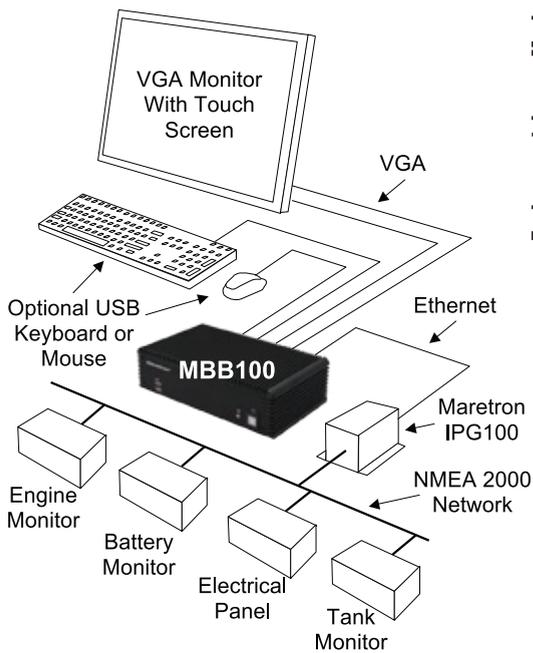
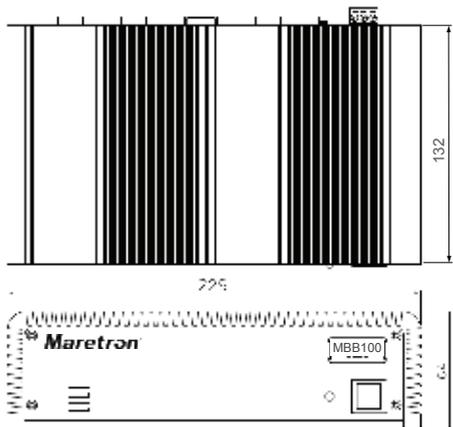
Of course you get the same flexibility using Maretron's N2KView® software from the MBB100 as you would running the software on a PC, which includes the ability to configure as many screens as you want with exactly the information you want to see. Plus you get free upgrades to the software as improvements and new features are added.



Products

PART NUMBER	DESCRIPTION
MBB100-01	Black Box Vessel Monitoring and Control





Specifications

Parameter	Value	Comment
Video Connector	One VGA Port (RGB or D-sub 15)	For Monitor Connection
USB Connector	Four USB 2.0 connections	For connecting Peripherals (Mouse, keyboard, etc.) and or touch screen connectivity
Serial Connector	One RS232 9-Pin D Connector	For touch screen alternative connection
Ethernet Connector	Two GbE	For connection to Maretron IPG100 Gateway or/and router
Audio Connection	One Speaker Output	

Electrical Certifications

Parameter	Comment
FCC class A and CE Mark	Electromagnetic Compatibility

Mechanical

Parameter	Value	Comment
Operating Voltage	9 to 36 Volts	DC Voltage
Power Consumption (Maximum)	19 Watts	

Parameter	Value	Comment
Overall Dimensions (DxWxH)	5.19" x 9.02" x 2.52" (132mm x 229mm x 64mm)	Including Flanges for Mounting
Weight	4.6 lbs (2.1kg)	
Chassis Material	Aluminum	
Mounting	Vesa 100 or DIN	Any Orientation

Environmental

Parameter	Value
Operating Temperature	-10°C to 60°C
Operating Shock	Half-sine wave shock 3G; 11 ms; 3 shocks per axis
Vibration	MIL-STD-810F 514.5C-2

