IPG100 Internet Protocol Gateway

The Internet Protocol Gateway (IPG100) lets you connect Maretron black boxes (MBB100's), Maretron touch screens (DSM800's), PC's, Mac's, tablets, or smartphones to an NMEA 2000[®] network so you can monitor and control your vessel using Maretron's N2KView[®] software. The conventional way of viewing NMEA 2000[®] information is with a display on the vessel that is directly connected to an NMEA 2000[®] network, but with the IPG100, you are not limited to direct connected displays. With the IPG100, you can use any device running N2KView[®] software to monitor and control your vessel from onboard or ashore.



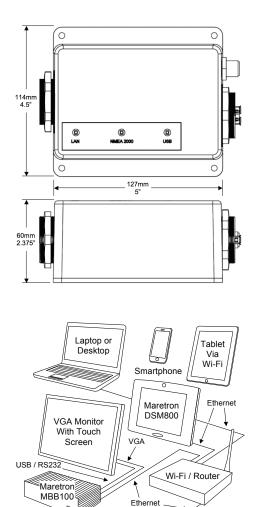
Products

PART NUMBER	DESCRIPTION	
IPG100-01	Internet Protocol Gateway	
PX0852	USB Waterproof Cover	
PX0837/5M00	Waterproof Ethernet Cable 16.4'	



The IPG100 has an NMEA 2000[®] and an Ethernet data port for exchanging information between the onboard NMEA 2000® network and Internet Protocol (IP) enabled devices using conventional technology such as routers, switches, and wireless modems. In addition, the IPG100 includes a USB port used for connecting Maretron's hardware license key. The hardware license key is used to enable remote devices running N2KView® software. For example, if you purchase three N2KView® license keys, you can run N2KView® at the helm, another on a handheld device connected via Wi-Fi, and another at home on your PC or Mac with an Internet connection back to the vessel. The licenses are floating, so if you were to shut down N2KView® running at home, you could fire up the third N2KView® license on the vessel.

Maretron®



	Parameter	Value	Comment
	NMEA 2000® Connector	DeviceNet Micro-C	Industry Standard Waterproof
	NMEA 2000® Isolation	Opto-Isolated	No Electrical Connection Across Bridge
	USB Standard	USB 1.1	
Specifications	USB Connector	USB Type A	Industry Standard Waterproof, for Connection of N2KView Hardware License Key Only
ec	USB Supported Signals	D+, D-, +5V, GND	Bi-directional Gateway
2	USB Auxiliary Power	+5 Volts < 200 mA	
	USB Baud Rate	Up to 12 Mb/s	Full Speed USB Data Rate
	Ethernet Interface	100 Mb/s	
	Ethernet Connector	RJ-45	Industry Standard Waterproof

us	Parameter	Comment
먍	NMEA 2000® Standard	Level A
S	Maritime Navigation and Radiocommunication Equipment & Systems	IEC 61162-3
ĮĮ	Maritime Navigation and Radiocommunication Equipment & Systems	IEC 60945
ß	FCC and CE Mark	Electromagnetic Compatibility

	Description	PGN #	PGN Name	Default Rate
k ()	Response to Requested PGNs	126464	PGN List (Transmit and Receive)	N/A
		126996	Product Information	N/A
'ameter (PGNs)		126998	Configuration Information	N/A
2000® Param Numbers (P(Protocol PGNs	059392	ISO Acknowledge	N/A
		059904	ISO Request	N/A
		060416	ISO Transport Protocol, Connection Management	N/A
		060160	ISO Transport Protocol, Data Transfer	N/A
E B		060928	ISO Address Claim	N/A
Group		065240	ISO Address Command	N/A
		126208	NMEA Request/Command/Acknowledge	N/A

	Parameter	Value	Comment
Gal	Operating Voltage	9 to 32 Volts	DC Voltage
Ŀ,	Power Consumption	<150mA	Average Current Drain
Ğ	Load Equivalence Number (LEN)	3	NMEA 2000® Spec. (1LEN = 50 mA)
Ele	Reverse Battery Protection	Yes	Indefinitely
	Load Dump Protection	Yes	Energy Rated per SAE J1113

a	Parameter	Value	Comment
chanic	Size	5.000" x 4.500" x 2.375" 127mm x 114mm x 60 mm)	Including Flanges for Mounting
Mec	Weight	12 oz. (340 g)	

Parameter	Value	
IEC 60945 Classification	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/s2 per IEC 60945-8.7	
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 7days @ 40°C, 95%RH after 2 hour Salt Spray Per IEC 60945-8.12	
Electromagnetic Immunity	Conducted, Radiated, Supply, and ESD per IEC 60945-10	
Safety Precautions	Dangerous Voltage, Electromagnetic Radio Frequency per IEC 60945-12	



Engine Monitor

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Battery Monitor

N2KView[®] Hardware License Key

Electrical Panel

Tank Monitor

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Environmental

Maretron

IPG100

NMEA 2000 Network