

# SDL-2000 Data Logger gateway

The SeaSmart.net SDL-2000 Gateway translates NMEA 2000 bus data to USB or Serial (RS232) format for use by PC/Laptop Applications and provides data logging to internal SD memory card.

Removable SD memory card can store up to 4 GB of NMEA 2000 bus data at up to 125 records/sec – more than a full year's worth of traffic. Each record represents a complete NMEA 2000 PGN. Programmable data filtering and sample rates can obtain up to 10 years of storage on a single card.

Stored data from the SD memory card can be uploaded directly to the HelmSmart.net servers for cloud base storage and analysis or to the PC based PushSmart™ App for conversion into spreadsheet and graphing formats. No detailed knowledge of NMEA 2000 protocol is required to view and analyze bus data. HelmSmart.net provides preconfigured web pages for displaying data map overlays, graphs, charts, column data, and even virtual gauges.

An optional 8-input connector with flying lead harness is available to supply additional NMEA 2000 data using PGN 127501 (indicator/status) and PGN127508 (battery voltage). Leads can connect directly to switches, contact closures, and voltage circuits to provide additional monitoring and logging of vessel status.

The multi-function weather-resist data port auto switches from Serial mode to USB mode when plugged into a compatible PC/Laptop and is electrically isolated from the NMEA 2000 bus. Serial mode allows legacy NMEA 0183 equipment an upgrade path to NMEA 2000 using the PushSmart™ Protocol while USB mode provides an isolated protective interface to PCs running marine instrumentation and chart plotting applications

The SeaSmart.net SDL-2000 adapter can be used stand-alone to data log selected NMEA 2000 traffic or with a PC/Laptop and supplied vDash software for real-time display of virtual instrumentation.

All SeaSmart.net adapters are NMEA 2000 Certified to meet rigid standards that ensure reliable interoperation among all participating manufactures and products. Certification guarantees SeaSmart.net will not affect bus operation and follows strict electrical and power isolation standards.

Other SeaSmart.net adapters are available for NMEA 2000 interface to Ethernet and WiFi with embedded Web Servers for Browser based viewing of all vessel information via internet connections.



Model Number	SSSDL2000	SSENETG2	SSWiFiG2	SSWiFiPro
Interface	Serial/USB	Ethernet	WiFi	WiFi
PGN List Size (RX/TX) <ul style="list-style-type: none"> <li>User configurable</li> <li>Bus Analyzer S/W for PC/Browser</li> <li>Receive All Mode</li> </ul>	32/28	32/28	32/28	32/28
NMEA 2000 Protocol Supported <ul style="list-style-type: none"> <li>PushSmart</li> <li>Actisense NGT</li> </ul>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
NMEA 0183/AIS supported		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
SD Memory Storage (removable)	4GB	4GB	4GB	4GB
Serial Port (RS232)/USB Port <ul style="list-style-type: none"> <li>Supplied weather-resist USB - 2m</li> <li>Twist-Lock connector</li> <li>Supplied PC Instrumentation S/W for live view</li> </ul>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Aux Status/Indicator Inputs <ul style="list-style-type: none"> <li>Contact/Switch closure</li> <li>Voltage Sense (12/24)</li> </ul>	8	-	-	12
NMEA 2000 Port <ul style="list-style-type: none"> <li>DeviceNet 5-pin connector</li> </ul>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Ethernet Port (10/100 Base-T) <ul style="list-style-type: none"> <li>Supplied weather-resist RJ45 patch cable-3m</li> <li>5-pin micro Twist-lock connector</li> </ul>		<input checked="" type="checkbox"/>		-
WiFi Port (802.11 b/g) 2.48 GHz <ul style="list-style-type: none"> <li>Supplied 6" di-pole</li> <li>Optional remote Antenna</li> </ul>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Embedded Web Server <ul style="list-style-type: none"> <li>Included Web Pages for live view</li> </ul>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Remote Access via Internet <ul style="list-style-type: none"> <li>Direct Push to HelmSmart.net</li> </ul>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Power Supply	9V-32V DC	9V-32V DC	9V-32V DC	9V-32V DC
Supply Current	600 mA	800 mA	800 mA	850 mA
Enclosure Material	Plastic	Plastic	Plastic	Plastic
Dimensions	4"x2"x2"	4"x2"x2"	4"x2"x2"	4.7"x5.3"x1.5"