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Vessel sensor interface module displays instruments onboard using any web enabled device and offers cloud storage and analytics services.

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Chetco Digital Instruments has enhanced its SeaGauge™ product line with second generation vessel analog sensor interface units introduced for the 2015 Fort Lauderdale International Boat Show. SeaGauge G2™ Remote Sensor units convert existing analog sensors into network protocols including USB, RS232 (NMEA 0183), NMEA 2000, Ethernet, and WiFi for instrumentation display on compatible devices such as Chart Plotters, PCs, Android tablets, iPads, and SmartPhones. The new built-in network interfaces allows data from hundreds of sensors to be recorded and uploaded to Cloud servers for analysis and display. SeaGauge G2™ interfaces directly to vessel data sensors such as temperature, pressure, fluid levels, voltages, and more - up to 28 different inputs. Sensor signals are converted to network protocols like WiFi, Ethernet, and NMEA 2000 for display on compatible tablets or Multi-Function Displays heads located throughout the vessel. A single SeaGauge G2™ Remote Sensor unit can support Dual engines plus a Generator and display on multiple devices using a single network cable. SeaGauge G2™ has built-in calibrations to support over 300 different sensors which can now be loaded directly using SD memory cards.



The built-in Web Server and networking options allows SeaGauge G2™ Remote Sensor units to accept up to 28 separate sensor inputs using the company's PushSmart protocol and upload to the HelmSmart.net™ Internet site for display as charts, maps, spreadsheets, gauges, and other analytical tools. "You really get the best of both worlds" comments Joe Burke CTO for Chetco Digital. "Live data can be displayed onboard using a iPad or Android tablet and then remotely reviewed on a spreadsheet at a later time" he added. Multiple ports featuring NMEA 2000, Ethernet, or USB interfaces allow connecting both MFDs and PCs on the same vessel network. "In the past we just viewed data and then threw it away, now we keep it" Burke added when referring the new historical analysis features. A single

4GB SD memory card can hold up a full year of vessel operations and cloud storage offers a full lifetime.

In addition to data logging, the SD memory option now allows SeaGauge™ Remote Sensor units to be field configured without requiring a PC connection. Configuration settings and sensor calibrations can be copied to an SD card and then inserted into the unit for instant updates. This greatly simplifies installation and makes support much easier as configuration files can be downloaded directly from the Company's Web Site. Installers now access the support library on-line and configure customer's units without having to worry about drivers, Apps, OS versions, or other PC related issues. When equipped with the Ethernet or WiFi network interface option, a custom user interface complete with gauges, layouts and sensor selection can be completed entirely online without a PC/laptop.

SeaGauge G2™ has been upgraded with a new sealed enclosure design and 48 wire cable harness to accept 27 sensor inputs – 3 pulse, 12 analog, and 12 switch/indicator status. Vessel sensors can be attached directly to replace analog gauges or the unit can be configured to run in parallel with existing clusters by using voltage sense mode. High precision calibration tables can be tuned to within 0.5% accuracy across the entire operating range and virtually any new sensor added to the system. SeaGauge G2™ is designed to retrofit older vessels with outdated or inoperative gauges and convert to new digital formats found in most modern designs. Even if a vessel already has a new electronic engine package installed, there still is a need to add in fluid tanks, battery monitoring, Gen-Sets and other equipment for digital instrumentation.

A major benefit of the new networking options is seamless integration with Chetco Digital Instruments HelmSmart.net™ Cloud data services. Recorded SD data can be transferred to Cloud Servers using available internet connections where it is then instantly added to the HelmSmart database. Once in the Cloud, customers can search and view information using a variety of analysis and display tools. Cloud base storage provides fast and reliable access to vessel data using any browser enabled device. HelmSmart.net™ display tools include mapping (MapSmart.net), Graphing (GraphSmart.net), live instruments (netGauges.net), live plotting (netGraphs.net) and multidimensional data search. With a SeaGauge G2™ Ethernet or WiFi interface option, live vessel data can be streamed to HelmSmart™ cloud servers using on-board internet services and instantly viewed with any Browser enabled device. Hosting data on cloud servers provides continuous vessel access for multiple users, virtually anywhere.

SeaGauge G2™ is standard with dual Serial/USB interface ports, sealed enclosure with 48 wire flying lead harness, 3 pulse, 12 analog, and 12 indicator status inputs. NMEA 2000, Ethernet, or WiFi network interfaces are optional. SD data logging is included with WiFi and Ethernet options. Pricing starts at \$695 for SeaGauge G2™ base unit and \$895 for NMEA 2000, Ethernet, or WiFi options.

For more information on SeaGauge G2™, and other Chetco Digital Instruments products, and where to buy, see our web sites at www.seagauge.com & www.digitalmarinegauges.com & www.helmsmart.com or email sales@seagauge.com.

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