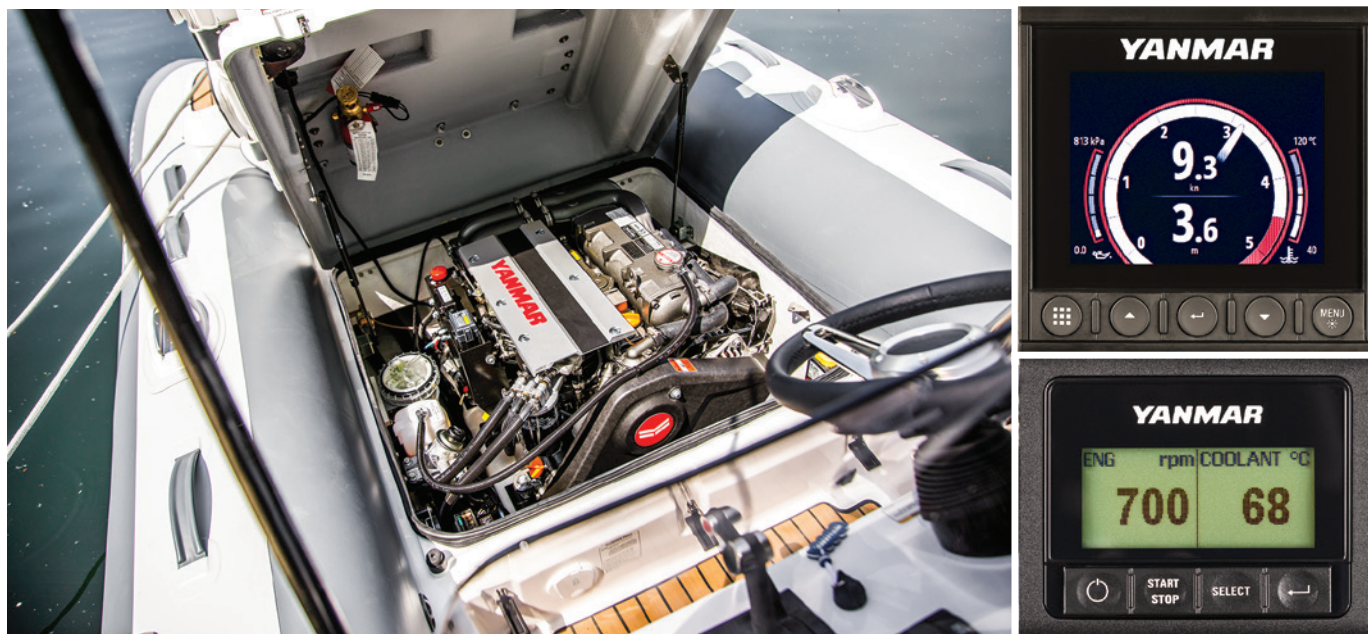


Elegant Interface

Yanmar's new displays deliver in-depth data on engine performance.

By Doug Thompson



The Yanmar YD42 (top right) and the YD25 (bottom right) displays provide valuable information for captains and technicians.

Today's Yanmar electronic control units (ECUs) are fast computers that control the operation of the manufacturer's high-tech common rail engines. The amount of engine data generated is so voluminous, it's probably overwhelming for most boating enthusiasts.

That data is also valuable, not only to the captain and crew, but to service techs who need the engine alarm and diagnostic troubleshooting codes to properly diagnose and solve issues. Curating all that data and delivering it in a readable format led to the development of two new Yanmar displays: the full-color YD42 and monochrome YD25. The sleek displays are set into black bezels to match current glass cockpit styling.

YD42

"The YD42 takes in the data sent by the ECU and can present it on its color screen and also deliver it to the boat's large multifunction display for easy viewing," explains Sander Gesink, global marketing manager for Yanmar Marine International. "It's easy to configure data screens suited to your liking, making your most important data immediately accessible."

Yanmar's YD42 is built as a CAN converter, so all the data it collects from the engine is simply passed through to the helm's multifunction displays (MFD) via NMEA 2000 protocols.

"The YD42 allows you to keep an eye on your engine data at all times," says Gesink. "While the MFD is the leading media that boatbuilders will use, the YD42 is constantly displaying all this very specific engine data. Older displays were sometimes a bit hidden at the helm, behind your feet for example, and these new displays are for the dash. The YD42 is simple to install with an easy front-mount option, requiring no access to the back of the console or panel."

The YD42 display utilizes a low-profile glass helm design and a 4.1-inch color screen. Users can also view additional information that includes engine speed and load, oil pressure, coolant temperature as well as wind, speed, depth, and AIS data. The YD42 supports eight languages and is compatible with a wide range of NMEA 2000 devices.

YD25

The second display introduced is the YD25 LCD Switch Panel. It's designed to deliver important engine data in a smaller unit for boats with limited dash space. The YD25 offers engine start/stop functionality and shows all engine data, alarms, and diagnostic codes. As with the YD42, the YD25 integrates with multifunction displays and glass helm systems. Intuitive data screen selection keys allow viewing of information including engine speed, engine load, oil pressure, and coolant temperature on four customizable monochrome screens.

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Linking Technologies

Yanmar's new displays are designed for its 40-hp to 440-hp engines with common rail technology, a digitally controlled, high-pressure fuel injection and sensor system that optimizes engine efficiency and performance by offering reduced emissions, less noise, and peak power output.

“Multiple sensors throughout the engine intelligently feed operating conditions and performance requirements to the ECU,” says Gesink. “The system monitors the throttle position, various temperatures, rail and pressure, intake air pressures, and both crank and cam positions.”

Utilizing feedback from the sensors, the ECU regulates fuel from the supply pump into a single high-pressure fuel rail and digitally activated injectors. This controls precisely when and how much fuel to inject. A common rail system can supply between one and five injections to each cylinder over the course of a cycle, rather than one single injection in a mechanically controlled fuel system.

All the data generated by the ECU is easily seen by the captain and crew due to the robust design of the new Yanmar displays.

Made for use in all weather conditions, the water-resistant YD42's LCD panel is optically bonded to its protective glass covering. This helps eliminate that bothersome condensation or fogging within the display. Also used is transfective LCD technology that draws on reflected sunlight to brighten, rather than obscure, the displayed image.

“Now you have superior daytime visibility and lower power consumption compared to traditional backlit displays,” explains Gesink. “They stand up to the harsh ocean environment—the YD42 is rated waterproof to IPX7 standards, while the YD25 is waterproof to IPX6/7 in the front and IPX7 in the back.”

The new displays are designed primarily for new builds; however, retrofits on other Yanmar common rail engines are possible. It's also possible to feed twin-engine data into a single YD42 with the proper wiring harness.

“We are very happy with these two new additions, and we plan on expanding our Yanmar electronics on the boat,” says Gesink. “We are not sitting still at Yanmar, always asking what the customer and the boatbuilder need to have a better experience.” yanmarmarine.com

