

PRESS RELEASE

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Contact: info@us.yokogawa.com

Contact Phone: 1-800-888-6400

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Yokogawa Announces New Eight-channel Mixed-Signal Oscilloscope

Newnan, Georgia - The new Yokogawa DLM4000 is the industry's only eight-channel mixed-signal oscilloscope. Combining the large screen and eight-channel capability of Yokogawa's earlier eight-channel DL7480 oscilloscope with the mixed-signal technology of the company's pioneering DLM2000 Series, the new instrument is ideally suited to test and debug applications in the embedded systems, power electronics, mechatronics and automotive sectors.

"As intelligent control permeates more and more sectors of the industry from consumer electronics to industrial drives, the signals that engineers need to look at for testing become faster and more complex," says Tom Quinlan, Yokogawa's General Manager of Test & Measurement for North America. "As a result, the four analog channels of the traditional oscilloscope are no longer adequate to address these challenges – hence the need for an eight-channel instrument like the DLM4000."

The DLM4000 Series is comprised of two models with bandwidths of 350 and 500 MHz and a sampling rate of 1.25 GSa/s (gigasamples per second), expandable to 2.5 GSa/s with interleaving. The inputs can be allocated as eight analog channels or seven analog channels, plus one 8-bit digital input. A future logic-expansion option will offer sixteen additional channels of logic for a total of seven channels of analog input with simultaneous 24-bit digital input.

The new instruments feature exceptionally long memory (up to 62.5 M points per channel and 125 M points in interleave mode), allowing both long recordings and multiple waveforms to be acquired. A history memory function, which does not reduce the oscilloscope's high waveform acquisition rate, allows up to 20,000 previously captured waveforms to be saved in the acquisition memory, with any one or all of them displayed on screen for cursor measurements to be carried out. Waveforms can be displayed one at a time, in order, or automatically played back, paused, fast-forwarded or rewound. The history memory in combination with the advanced waveform search features enable users to capture and see the details of anomalies on individual waveforms when their characteristics are still unknown.

Advanced measurement and analysis features include histogram and trending functions, digital filtering, zoom windows, user-defined mathematics and serial bus analysis.

The instruments incorporate a large (12.1-inch) high-resolution XGA display, and yet are housed in a compact body, which is less than 18 cm deep and weighs just 6.5 kg, similar to smaller 4-channel oscilloscopes. The display is enhanced by a fine grid, high luminance and viewing angle, and on-screen markers with simultaneous display of cursors and automatic parameters. Other features include backlit buttons, additional knobs and jog shuttle, on-screen information in English, German, French, Italian and Spanish languages, two zoom windows with 80:20 or 50:50 zoom/main area split, and a choice of first-cycle or screen average mode for frequency measurement.

The DLM4000 Series comes with a variety of easy-to-configure triggers combining analog and logic inputs such as edge, enhanced and B-triggers. These include dedicated trigger functions for FlexRay, CAN, LIN, UART, I²C and SPI serial bus patterns, as well as the ability to perform simultaneous analyses on two different buses operating at different speeds. This capability is enhanced by the extensive search facilities, allowing the user to look for specific data in the very long memory.

For further information about the eight-channel DLM4000 Mixed-Signal Oscilloscope, visit tmi.yokogawa.com.

About Yokogawa Test & Measurement

Yokogawa Test & Measurement Division is a major worldwide force in the test & measurement market, with products that include oscilloscopes, power meters and optical communications test equipment, portable test instruments, recorders and data-acquisition systems. For more information about Yokogawa Test & Measurement, please visit our website www.tmi.yokogawa.com.

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Yokogawa Corporation of America is the North American division of Yokogawa Electric Corporation and a key part of Yokogawa's global network of 25 manufacturing facilities and 80 companies spanning 55 countries. Since its founding in 1915, the US\$4 billion company has been engaged in cutting-edge research and innovation, securing more than 7,200 patents and registrations, including the world's first digital sensors for flow and pressure measurement. Industrial automation and control, test and measurement, information systems and industry support are the core businesses of Yokogawa. For more information about Yokogawa, please visit our website www.yokogawa.com/us.

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Yokogawa's global network of 90 companies spans over a total of 55 countries. Founded in 1915, the US\$4 billion corporation conducts cutting-edge research and innovation. Yokogawa is engaged in industrial automation and control (IA), test and measurement, and other business segments. The IA segment plays a vital role in a wide range of industries including oil, chemicals, natural gas, power, iron and steel, pulp and paper, pharmaceuticals, and food. For more information about Yokogawa, please visit our website www.yokogawa.com.