New Products

Increased waveform display speed and advanced analysis functions enable digital oscilloscopes to display and analyze waveforms with both high speed and advanced functions comparable with analog oscilloscopes. In addition, the market for mixed-signal oscilloscopes is expanding, which are able to measure not only analog signals but also logic signals simultaneously, and analyze them in an integrated manner. While the performance and functions of oscilloscopes are advancing, more intuitive and simple operation are required than before.

To meet these market requirements, Yokogawa has developed the DLM6000 Series of Mixed Signal Oscilloscopes and DL6000 Series of Digital Oscilloscopes that provide both high performance and simple operation.

FEATURES

- A total of up to 36 signals (analog 4-channel or analog 4-channel plus up to 32-bit logic signals) can be measured simultaneously.
- Intuitive and simple operation
  Dedicated knobs for horizontal/vertical positioning and trigger level adjusting, combined with simple menus, have achieved intuitive operation.
- Real time filter and high-resolution mode
  An optimal input filter setting removes unnecessary frequency components, and a high-resolution mode enables high precision measurement.
- High-speed acquisition and history memory
  Analog and logic waveform display can be updated at a rate of a maximum of 25,000 times per second, and up to 2,000 waveform screen data can be stored.
- Search function extracting abnormal phenomena and dual zoom function providing detailed views
  A waveform matching the search condition can be searched for at high speed. The zoom factor and area can be set separately to display two zoomed areas simultaneously.
- Automated measurement and statistical processing of a variety of waveform parameters
  Waveform voltage, time, and power (option) parameters can be measured automatically and each parameter can be processed statistically.
- A variety of serial bus analysis (option)
  CAN, LIN, UART, I²C, and SPI can be analyzed, and the protocol information and waveform can be displayed simultaneously to facilitate analysis.
- High-speed calculation using digital filter, FFT, and DA conversion
  High-speed processing by the hardware enables displaying the result of even a complex calculation without any waiting time.

SPECIFICATION

- Input channels
  4 for DL6000 Series
  4 + 16 or 4 + 32 for DLM6000 Series
- Voltage axis sensitivity setting range
  2 mV to 5 V/div for 1 MΩ (steps of 1-2-5)
  2 mV to 500 mV/div for 50 Ω (steps of 1-2-5)
- Frequency characteristics
  DL6054, DLM6054: 500 MHz
  DL6104, DLM6104: 1 GHz
  DL6154: 1.5 GHz
- Bandwidth limit
  FULL, 200 MHz, 20 MHz, 8 MHz, 4 MHz, 2 MHz, 1 MHz, 500 kHz, 250 kHz, 125 kHz, 62.5 kHz, 32 kHz, 16 kHz, 8 kHz
- Sampling rate
  Interleave OFF: 5 GS/s (DL6154)
  2.5 GS/s (DL6054/6104, DL6054/6104)
  Interleave ON: 10 GS/s (DL6154)
  5 GS/s (DLM6054/6104, DLM6054/6104)
- Maximum record length: 6.25 M Points
- Logic input (DLM6054, DLM6104)
  Input bits: 16 or 32
  Maximum toggle frequency: 100 MHz for Model 701988
  250 MHz for Model 701989
- Communication Interface: USB, Ethernet (option)
- Dimensions
  DL6000 Series: 350(W) × 200(H) × 178(D) mm
  DLM6000 Series: 350(W) × 200(H) × 285(D) mm
- Weight (excluding options)
  DLM6000 Series: approx. 6.5 kg
  DL6000 Series: approx. 7.7 kg

Contact us
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For worldwide locations, please refer to the reverse side of the back cover.

DLM is a registered trademark of Yokogawa Electric Corporation.