



The 390AD complies with IEEE Standard 488-1978, and with Tektronix Standard Codes and Formats.

True Dual Channel 30 MHz Sampling Rate (60 MHz in Single Channel Mode)

2048 Word Memory Per Channel (4096 Single Channel Mode)

10-Bit Resolution

Bislope Triggering

Sample-Rate Switching

Cursor-Based Measurements

Direct Plotter Output Capability

Applications

- Extracting Information from Signals Containing Components from dc to 15 MHz
- Ultrasonics/Stress/Strain
- Mechanical/Vibration
- Audio
- ATE
- Laser Spectroscopy
- Biomedical Research
- LIDAR
- Geo-Seismic

The SONY/TEKTRONIX 390AD is a high-resolution transient waveform digitizer designed for applications involving analysis of low-to-medium speed signals – signals containing frequency components of dc to 15 MHz.

The 390AD is a true dual-channel digitizer with separate analog-to-digital converters for each channel. A two-stage flash-conversion process yields 10-bit vertical resolution with excellent dynamic accuracy.

An internal crystal-based source provides sampling rates selectable from 30 MHz to 5 Hz (60 MHz maximum for single channel operation) with provision for sample-rate switching during acquisition.

PROGRAMMABLE WAVEFORM DIGITIZER



Record length is 2048 words for each channel, with the entire 4096-word memory available for single-channel applications. Two cursors are provided for making accurate single-point or point-to-point time and voltage measurements on single waveforms or between selected points on channels 1 and 2. A zoom feature enables precise cursor positioning.

An X versus Y display mode and shift mode function provides a powerful tool for visual comparison of related phenomena.

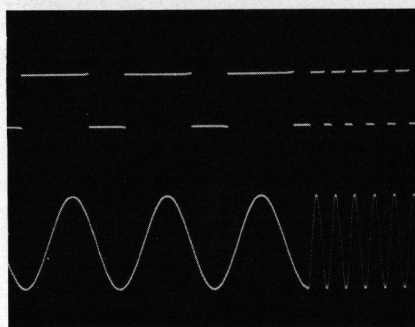


Figure 1. Photo showing sample rate switching. In this example, switching occurs at the 1620th sample, to extend the display window. The sample rate can be either increased or decreased at the trigger point. A minor time discontinuity may occur at the trigger point under some conditions.

Bislope triggering ensures capturing the data of interest for those applications where trigger polarity cannot be predetermined. Selectable pretriggering and posttriggering provides extensive flexibility in windowing the data available for acquisition.

Measurement accuracy and proper functioning of the 390AD are confirmed by self-calibration and self-test procedures that are automatically performed at power-on and which the user can activate during operation.

The 390AD is designed for use as a system component, thus is fully programmable via the GPIB (IEEE-488). The 390AD conforms to the Tektronix Standard codes and formats.

Analog outputs for direct connection to a monitor and X-Y plotter are provided.

The 390AD is available in both cabinet and rackmount configurations.

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