



Description

CalBench consoles can be fitted with various oscilloscopes depending on customer requirements. Each scope offers excellent accuracy and high performance, and are ideal for maintenance of electronic equipment and general purpose laboratory work.

Basic Specifications

Modules (standard range shown, Tektronix TDS 2000 series, others upon request)

7021: Digital Oscilloscope Module - 70MHz, 2 channel, colour TFT LCD display.

7022: Digital Oscilloscope Module - 70MHz, 4 channel, colour TFT LCD display.

7023: Digital Oscilloscope Module - 100MHz, 4 channel, colour TFT LCD display.

7024: Digital Oscilloscope Module - 200MHz, 4 channel, colour TFT LCD display.

Display TFT LCD.

Bandwidth 7021 & 7022 = 70 MHz. 7023 = 100 MHz. 7024 = 200 MHz .
(B/w is 20 MHz at 2 mV/div for all).

Channels 7021 = 2. 7022, 7023, & 7024 = 4.

External trigger input Included on all modules.

Sample rate on each channel 7021 & 7022 = 1.0G S/s. 7023 & 7024 = 2.0 GS/s.

Record length 2.5 k points at all time bases on all modules.

Vertical resolution 8 bits.

Vertical sensitivity 2 mV to 5 V/div on all models with calibrated fine adjustment.

DC Vertical accuracy ±3 % on all modules.

Vertical zoom Vertically expand or compress a live or stopped waveform.

Maximum input voltage 300 V RMS CAT II;
(derated at 20 dB/decade above 100 kHz to 13 V p-p AC at 3 MHz)

Position range 2 mV to 200 mV/div +2 V. >200 mV to 5 V/div +50 V.

Bandwidth limit 20 MHz for all modules.

Input coupling AC, DC, GND on all modules.

Input impedance 1 MΩ in parallel with 20 pF.

Time base range 7021 & 7022 = 5 ns to 50 s/div. 7023 & 7024 = 2.5 ns to 50 s/div.

Time base accuracy 50 ppm.

Horizontal zoom Horizontally expand or compress a live or stopped waveform.

Interfaces USB host port on front panel supports USB flash drives.

Module width 425 mm (primary or secondary console fitting).

Full specifications upon request.

Due to continuous development Time Electronics reserves the right to change specifications without prior notice.

Features

- 16 automated measurements
- FFT analysis for simplified waveform analysis
- Built-in waveform limit testing
- Automated, extended data logging feature
- Autoset and signal auto-ranging
- Built-in context-sensitive help
- Probe check wizard
- Multiple-language user interface
- 5.7 in. (144 mm) active TFT colour display

Non-Volatile Storage

Reference waveform display (2) 2.5 k point reference waveforms.

Waveform storage w/o USB Drive 7021 = (2) 2.5 k point.
7022, 7023, & 7024 = (4) 2.5 k point.

Maximum USB drive size 64 GB.

Waveform Storage with USB drive 96+ reference waveforms per 8 MB.

Setups without USB drive 10 front-panel setups .

Setups with USB drive 4000 or more front-panel setups per 8 MB.

Screen images with USB drive 128 or more screen images per 8 MB

Save all with USB drive 12 or more Save All operations per 8 MB.

