

MDO3000 Series

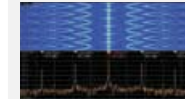


30-SECOND SELL

“This series has six integrated instruments, including a spectrum analyzer, arbitrary function generator and more. Capture analog, digital and RF signals with one scope. And you can add functions and upgrade bandwidth as your needs change.”

PRODUCT HIGHLIGHTS

- Integrated 6-in-1 oscilloscope that offers a spectrum analyzer, arbitrary function generator, logic analyzer, protocol analyzer and digital voltmeter
- Spectrum Analyzer standard on all models
- 10 Mpoint record length on all channels
- >280,000 wfm/s max. waveform capture rate with FastAcq
- Automated search and waveform navigation with Wave Inspector®



Monitor slowly changing RF events at a glance with spectrogram display.

| MODELS | STOCK CODE | ANALOG CHANNELS | DIGITAL CHANNELS (OPTIONAL) | ANALOG BANDWIDTH | ANALOG SAMPLE RATE | DIGITAL SAMPLE RATE MAIN/MAGNIVU™ | SPECTRUM ANALYZER INPUT | SPECTRUM ANALYZER FREQUENCY RANGE STANDARD/OPTIONAL |
|---------|------------|-----------------|-----------------------------|------------------|--------------------|-----------------------------------|-------------------------|---|
| MDO3012 | 2381346 | 2 | 16 | 100 MHz | 2.5 GS/s | 500 MS/s / 8.25 GS/s | 1 | 9 kHz - 100 MHz / 9 kHz - 3 GHz |
| MDO3014 | 2381344 | 4 | 16 | 100 MHz | 2.5 GS/s | 500 MS/s / 8.25 GS/s | 1 | 9 kHz - 100 MHz / 9 kHz - 3 GHz |
| MDO3022 | 2381343 | 2 | 16 | 200 MHz | 2.5 GS/s | 500 MS/s / 8.25 GS/s | 1 | 9 kHz - 200 MHz / 9 kHz - 3 GHz |
| MDO3024 | 2381342 | 4 | 16 | 200 MHz | 2.5 GS/s | 500 MS/s / 8.25 GS/s | 1 | 9 kHz - 200 MHz / 9 kHz - 3 GHz |
| MDO3032 | 2381341 | 2 | 16 | 350 MHz | 2.5 GS/s | 500 MS/s / 8.25 GS/s | 1 | 9 kHz - 350 MHz / 9 kHz - 3 GHz |
| MDO3034 | 2381340 | 4 | 16 | 350 MHz | 2.5 GS/s | 500 MS/s / 8.25 GS/s | 1 | 9 kHz - 350 MHz / 9 kHz - 3 GHz |
| MDO3052 | 2381339 | 2 | 16 | 500 MHz | 2.5 GS/s | 500 MS/s / 8.25 GS/s | 1 | 9 kHz - 500 MHz / 9 kHz - 3 GHz |
| MDO3054 | 2381338 | 4 | 16 | 500 MHz | 2.5 GS/s | 500 MS/s / 8.25 GS/s | 1 | 9 kHz - 500 MHz / 9 kHz - 3 GHz |
| MDO3102 | 2381337 | 2 | 16 | 1 GHz | 5 GS/s | 500 MS/s / 8.25 GS/s | 1 | 9 kHz - 1 GHz / 9 kHz - 3 GHz |
| MDO3104 | 2381336 | 4 | 16 | 1 GHz | 5 GS/s | 500 MS/s / 8.25 GS/s | 1 | 9 kHz - 1 GHz / 9 kHz - 3 GHz |

MDO3000 Series

INSTRUMENT OPTIONS**

| | | |
|---------|--|---------|
| MDO3AFG | Arbitrary function generator | 2381349 |
| MDO3MSO | 16 digital channels; includes P6316 digital probe and accessories | 2381348 |
| MDO3SA | Increase spectrum analyzer input frequency range to 9 kHz – 3 GHz | 2381347 |
| MDO3SEC | Add password protected security to enable or disable all communication ports and firmware upgrades | 2381350 |

APPLICATION MODULES

| | | |
|---------|--|---------|
| MDO3BND | Enables MDO3AERO, MDO3AUDIO, MDO3AUTO, MDO3COMP, MDO3EMBD, MDO3FLEX, MDO3LMT, MDO3PWR, MDO3USB | 2458419 |
|---------|--|---------|

Serial Bus Triggering and Protocol Analysis

| | | |
|-----------|--|---------|
| MDO3AERO | Aerospace (MIL-STD-1553) | 2381353 |
| MDO3AUDIO | Audio (I ² S, LJ, RJ and TDM) | 2381354 |
| MDO3AUTO | Automotive (CAN, LIN) | 2381355 |
| MDO3COMP | Computer (RS-232) | 2381356 |
| MDO3EMBD | Embedded (I ² C, SPI) | 2381358 |
| MDO3FLEX | Automotive (FlexRay) | 2381359 |
| MDO3USB* | USB 2.0 (LS, FS, HS) | 2381360 |

Additional Analysis

| | | |
|---------|-----------------|---------|
| MDO3PWR | Power Analysis | 2381352 |
| MDO3LMT | Limit/Mask Test | 2381351 |

* USB 2.0 HS only available on 1 GHz analog bandwidth models and only for HS analysis.

**Can be preconfigured from the factory or ordered as stand-alone upgrade kits.

SHIPS WITH PRODUCT

- One Low C Passive Probe Per Channel, TPP1000 on 1 GHz Models, TPP0500B on 350 and 500 MHz Models, TPP0250 on all 100 and 200 MHz Models
- One P6316 16 Channel Logic Probe (with option MDO3MSO only)
- N-to-BNC Adapter
- OpenChoice® Desktop
- Calibration Certificate, Installation and Safety Manual, & Documentation on CD
- Accessory Bag
- Front Panel Language Overlay (if other than English)
- Power Cord
- 3-year Warranty

RECOMMENDED PROBES

Passive Voltage Probes

| | | |
|---------|---------------------------|---------|
| TPP0502 | 2X, 500 MHz, 300 V CAT II | 1877505 |
|---------|---------------------------|---------|


High Voltage Probes

| | | |
|----------|---|---------|
| TMDP0200 | 250X/25X, 200 MHz, ± 750 V / ± 75 V | 2072158 |
| THDP0200 | 1000X/100X, 100 MHz, ± 6000 V / ± 600 V | 2072157 |
| TPP0850 | 50X, 800 MHz, 2500 V Peak | 1877506 |

Current Probes

| | | |
|----------|--|---------|
| TCP0020 | 50 MHz, 20 A DC/20 A RMS/100 A Peak/10 mA Min | 2400636 |
| TCP0030A | 120 MHz, 30 A DC/30 A RMS/50 A Peak/1 mA Min | 2318650 |
| TCP0150 | 20 MHz, 150 A DC/150 A RMS/500 A Peak/5 mA Min | 1856719 |

TOOLS FOR THE CUSTOMER

 Data Sheet

 Virtual Tour

 360° View

FOR MORE INFO VISIT TEK.COM/MDO3000

3 Reasons to Buy this Product

8 out of 10 engineers trust Tektronix for their innovative, high-quality oscilloscopes. Here are a few more reasons why this scope stands out from the rest.

- 1 This series combines the functions of an oscilloscope, spectrum analyzer, function generator, logic analyzer, protocol analyzer, and digital voltmeter. You can check analog, digital, and RF signals with one instrument.
- 2 The built-in spectrum analyzer helps you track down EMI sources in your system and check wireless communications.
- 3 You can upgrade many of the features, so you can add them later if your needs change.