

NTP-DO9001R

Digital Oscilloscope

• High Stability • Industrial Grade • Rack Mount



Features

- Supports selectable bandwidth options of **50 / 70 / 100 MHz**, with **4-channel input configurations**
- Provides a **maximum sampling rate of up to 1 GSa/s**
- Features a **maximum memory depth of 10M points per channel** for detailed waveform capture
- Equipped with a **7-inch WVGA LCD display (800 × 480 resolution)**
- Incorporates a **256-level color intensity grading display** to enhance waveform visibility and analysis
- Enables **frequency-domain analysis with FFT resolution up to 1M points**
- Includes a **one-touch zero key** for rapid reset of **time base, voltage scale, and trigger settings**
- Designed with a **compact form factor and modern exterior styling**
- Supports **Interface data communication** for measurement data export and integration with external information systems



Technical Specifications

VERTICAL	Channels Bandwidth Rise Time Bandwidth Limit Vertical Sensitivity Resolution Input Coupling Input Impedance DC Gain Accuracy* Polarity Maximum Input Voltage Offset Position Range Waveform Signal Process	4 DC~100MHz(-3dB) 3.5ns 20MHz 8 bit : 1mV~10V/div AC, DC, GND 1MΩ // 16pF approx. ±3% Normal & Invert 300Vrms, CAT I (300Vrms CAT II with GTP-070A-4/100A-4 10:1 probe) 1mV/div : ±1.25V ; 2mV/div ~ 100mV/div : ±2.5V ; 200mV/div ~ 10V/div : ±125V +, -, ×, ÷, FFT, FFTrms, User Defined Expression ; FFT : 1Mpts; FFT : Spectral magnitude. Set FFT Vertical Scale to Linear RMS or dBV RMS ; FFT Window Display : Rectangular, Hamming, Handing, or Blackman-Harris
TRIGGER	Source Trigger Mode Trigger Type Holdoff range Coupling Sensitivity	CH1, CH2, CH3*, CH4*, Line, EXT**; *four channel models only. ; **two channel models only Auto (supports Roll Mode for 100 ms/div and slower), Normal, Single Sequence Edge, Pulse Width, Video, Pulse Runt, Rise & Fall, Timeout, Alternate, Event-Delay(1~65535 events), Time-Delay (Duration, 4ns~10s), Bus 4ns to 10s AC, DC, LF rej., Hf rej., Noise rej. 1div
EXTERNAL TRIGGER	Range Sensitivity Input Impedance	±15V DC ~ 100MHz Approx. 100mV ; 100MHz ~ 200MHz Approx. 150mV 1MΩ ±3%~16pF
HORIZONTAL	Time base Range ROLL Pre-trigger Post-trigger Timebase Accuracy Real Time Sample Rate	5ns/div ~ 100s/div (1-2-5 increments) 100ms/div ~ 100s/div 10 div maximum 2,000,000 div maximum ±50 ppm over any ≥1 ms time interval 1GSa/s max. Max. 10Mpts



	Record Length Acquisition Mode Peak Detection Average	Normal, Average, Peak Detect, Single 2nS (typical) selectable from 2 to 256
X-Y MODE	X-Axis Input Y-Axis Input Phase Shift	Channel 1 ; Channel 3* (*four channel models only) Channel 2 ; Channel 4* (*four channel models only) $\pm 3^\circ$ at 100kHz
CURSORS AND MEASUREMENT	Cursors Automatic Measurement Cursors Measurement Auto Counter	Amplitude, Time, Gating available; Unit : Seconds(s), Hz(1/s), Phase(degree), Ration(%) 36 sets: Pk-Pk, Max, Min, Amplitude, High, Low, Mean, Cycle Mean, RMS, Cycle RMS, Area, Cycle Area, ROVShoot, FOVShoot, RPRESshoot, FPRESshoot, Frequency, Period, RiseTime, FallTime, +Width, -Width, Duty Cycle, +Pulses, -Pulses, +Edges, -Edges, FRR, FRF, FFR, FFF, LRR, LRF, LFR, LFF, Phase Voltage difference between cursors (ΔV) Time ; difference between cursors (ΔT) 6 digits, range from 2Hz minimum to the rated bandwidth
CONTROL PANEL FUNCTION	Autoset Save Setup Save Waveform	Single-button, automatic setup of all channels for vertical, horizontal and trigger systems, with undo Autoset 20set 24set
DISPLAY	TFT LCD Type Display Resolution Interpolation Waveform Display Waveform Update Rate Display Graticule Display Mode	7" TFT WVGA color display 800 horizontal x 480 vertical pixels (WVGA) Sin(x)/x Dots, vectors, variable persistence (16ms~4s), infinite persistence 50,000 waveforms per second, maximum 8 x 10 divisions YT, XY
INTERFACE	USB Port Ethernet Port(LAN) Go-NoGo BNC Kensington Style Lock	USB 2.0 High-speed host port x 1 , USB High-speed 2.0 device port x 1 RJ- 45 connector, 10/100Mbps with HP Auto-MDIX 5V Max/ 10mA TTL open collector output Rear-panel security slot connects to standard kensington-style lock



POWER SOURCE		AC 100V ~ 240V , 50Hz ~ 60Hz , Auto selection , Power consumption: 30 Watts
MISCELLANEOUS	Multi-Language Menu Operation Environment Online Help	Available Temperature : 0°C ~ 50°C . Relative Humidity ≤ 80% at 40°C or below; ≤ 45% at 41°C ~ 50°C Available
DIMENSIONS & WEIGHT	380(W) × 208 (H) × 127.3(D)mm , Approx. 2.8kg	

