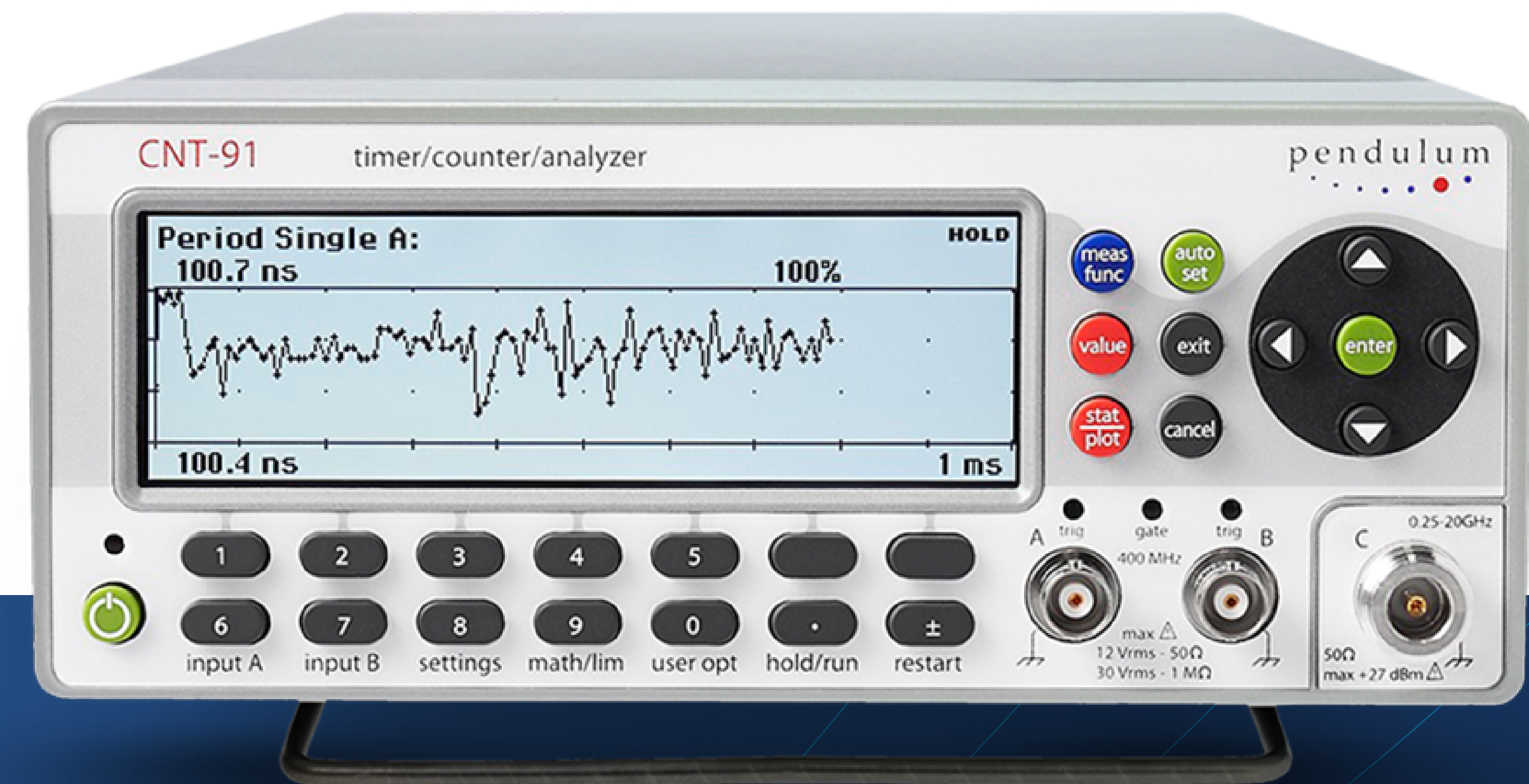


CNT-91/91R

pendulum

Advanced Frequency &
Time Interval Analyzer



Overview

The CNT-91 Frequency Timer/Counter/Analyzer, is the highest performance counter for measurement, analysis and calibration of frequency, time interval and phase. In production test systems, R&D, calibration lab, or in the field; the CNT-91 outperforms any counter on the market for speed, resolution, statistical analysis and processing capabilities.

Ultrahigh Speed and Resolution



The CNT-91 provides high 50 ps single shot time resolution or 12 digits/sec frequency resolution for capturing very small time and frequency changes. And, displays up to 14 digits on values obtained. The CNT-91 Timer/Counter/Analyzer also processes an exceptionally fast 250,000 measurements/sec to internal memory with a maximum of 3.5M measurements stored.

Counter/Analyzer product portfolio



CNT-91 Timer/Counter/Analyzer

- As CNT-90 with higher resolution and speed
- Time Interval resolution 50 ps rms
- 15k measurements/s over USB, GPIB
- Gap-free frequency measurements back-to-back
- Continuous data streaming 10k meas./s

CNT-91R Frequency Calibrator/Analyzer

- As CNT-91 but with built-in Rubidium clock
- Portable frequency and time interval calibrator
- Gap-free measurements ensures no missing cycle
- Outstanding measurement speed and resolution
- Ideal for Frequency calibration
- Built-in Rubidium timebase gives 11 digits accuracy (CNT-91R)
- One-box solution for portable frequency calibration (CNT-91R)

What are Counter/Analyzers used for?

Accurate measurement of stable time & frequency (Counter)

- Calibration labs
 - Calibrate the ref. oscillator in other products
 - Calibrate time and phase
- Manufacturing and QA
 - Verifying oscillators, frequency components (e.g. VCO) and modules
 - Verifying basic frequency and time parameters in electronic products (various test objects)
- Service
 - Maintenance, trouble shooting & field calibration of master clock in e.g. comm- and nav-equipment

Analysis of changes in time and frequency (Analyzer)

- R&D
 - Analyzing frequency hopping communication
 - Short-term stability analysis (ADEV) of oscillator/clocks
 - Analyze radar equipment, pulsed, doppler, chirp radar
 - Analyze FM, FSK, PWM and other modulation
 - Analyze jitter and noise
 - Analyze frequency settling, switching, ramp-up, etc.

TimeView® Modulation Domain Analysis SW

The optional Modulation Domain SW TimeView® is the ultimate tool to view and analyze dynamic frequency changes in real-time, utilizing the high-resolution PC screen, marker read-outs and processing, FFT-calculation to find modulation frequencies, ADEV calculation of short-term stability and more.

