CALIFORNIA INSTRUMENTS

800T

The California Instruments 800T is a series of plug-in oscillators designed for AC power sources. It features continuous, step-free frequency sweep capability via a calibrated front-panel vernier dial, and is available in single-phase, multi-phase, and open-delta configurations to support diverse test applications.

SPECIFICATIONS

General

Interfaces	External synchronization input via mating plug-in connector
Display	Calibrated vernier scaled dial

Physical

Power Supply	Powered by host mainframe slot
Operating Temperature	0 to 50 °C °C

Module Architecture & Compatibility

Module Type	Plug-in Oscillator
Compatible Mainframes	California Instruments AC Power Sources

Frequency Specifications

Frequency Selection Method	Continuously variable vernier scaled dial (step-free)
Frequency Ranges	20 Hz to 20 kHz in 3 bands, 45 Hz to 75 Hz in 1 band, or 300 Hz to 500 Hz in 1 band (model dependent)
Frequency Response	□1% over full frequency range

Output Specifications

Output Amplitude (Single-phase)	5 Vrms □1% over frequency range
Output Amplitude (Multi-phase)	Continuously variable from 0 to >5 Vrms
Amplitude Control	Front panel control for simultaneous variation of all phases

Phase & Sync

Phase Configurations	Single-phase, 2-phase, 3-phase, or 3-phase Open Delta (model dependent)
Phase Relationship (2-phase)	90° ± 1°
Phase Relationship (3-phase)	120° ± 1°
Phase Relationship (3-phase Open-Delta)	60° ± 1°
External Synchronization Capture Window	Within □0.5% of oscillator frequency
External Synchronization Signal Amplitude	5 Vrms

Distortion

Total Harmonic Distortion (45 Hz to 5 kHz)	0.1% maximum
Total Harmonic Distortion (5 kHz to 20 kHz)	0.25% maximum

Frequency

Frequency Accuracy	±1% of dial setting

Performance

Amplitude Stability	±0.05% for 24 hours at constant temperature

TECHNOLOGY

Analog AC Signal Generation

APPLICATIONS

AC Power Source Frequency Generation & Synchronization

Generated by SpecAtlasHub (specatlashub.com). Specifications are compiled from available sources and are subject to change — verify critical values against the manufacturer before purchase.