



Trig-Tek™ 41P

Portable Calibrator

The Trig-Tek™ 41P Portable Calibrator is a hand-held signal generator that provides accurate frequency and level in mV and pC.

Key Features

- mV and pC
- 0.1% frequency stability
- AC or DC output
- DC, Pk, Pk-Pk, RMS
- 0.1 to 9999 mV and pC
- High accuracy
- DC Offset

Product Information

Primarily used in environmental test laboratories and engine test cells, the 41P is ideal as a sensor simulator for remote calibration of monitoring instrumentation. A crystal-controlled oscillator provides five stable selectable frequencies: “61.4,” “100,” “140,” “318,” and “1000.”

Because the 41P has both mV and pC outputs, it is possible to calibrate piezo-electric or charge mode amplifiers.

A four-digit thumb switch, combined with an “X1-X10” switch, allows level selection from 0.1 to 9999 mV and pC, available in “DC,” “Pk,” “Pk-Pk,” and “RMS” units.

An offset feature allows a 0 to 12 VDC to be added to the AC signals.

The rechargeable battery provides eight hours of continuous service and has a “Batt Low” indicator on the front panel.

Specifications

Note: The Astronics Test Systems policy is one of continuous development and improvement. Consequently, the equipment may vary in detail from the description and specifications in this publication.

Outputs (mV and pC)

Impedance

- mV output <50 Ω

Level Accuracy

- 0.5% of reading ±0.1% of FS;
±3 LSD at 25°C (±0.015%/°C)

Frequencies

- 61.4 Hz, 100 Hz, 140 Hz, 318 Hz, and 1000 Hz

Frequency Accuracy

- 0.5% @ 25° C, 0.015%/° C

Units

- DC, RMS, Pk, and Pk-Pk

Controls

Frequency, Power

- Selects desired frequency or “On”/“Off”

Amplitude Selector

- Four-digit thumb switch allows level selection of 0.1 to 9999 mV and pC

Units

- Selects DC, Pk, RMS, or Pk-Pk

DC Offset

- Variable from 1 to 12 VDC

X1-X10 Switch

- In “X10” position, output level is multiplied by 10

Indicators

Chrg On

- LED illuminates when charging

Batt Low

- LED illuminates when battery-low condition exists

Interface

Power

- 110 VAC with supplied charger; 6 VDC rechargeable batteries

Mechanical

Dimensions

- 2.5” H x 6” W x 7” L
(6.3 cm x 15.2 cm x 17.8 cm)

Ordering Information

408299-001 : Trig-Tek™ 41P

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ASTRONICS
TEST SYSTEMS