



Trig-Tek™ 313A

Frequency Divider

The Trig-Tek™ 313A Frequency Divider is used to divide a high frequency to a lower frequency with an exact integer division.

Key Features

- Divides Input frequency from 1/0001 to 1/9999
- Input 1 Hz to 1 MHz
- Square wave output
- Absolute division
- Used for events counting and for division of timing signals
- 115 to 230 VAC power with 12 or 24 VDC power option

Product Information

The Trig-Tek™ 313A features a wide frequency range at its input and has 1-digit divisor increments from 1 to 9999.

The 313A also works in conjunction with the Trig-Tek™ 311A Frequency Multiplier. Using the Multiplier and Divider together enhances the possible frequency combinations.

Applications include:

- Events counting when it is desired to get a pulse out after a specific number of pulses are applied
- Dividing a clock frequency
- Counting shaft RPM where the tachometer sensor has multiple outputs, as from a gear

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.

Input

Impedance

- >10 k Ω

Waveform

- Square wave

Level

- 1 to 60 V_{pk}: 1 Hz to 1 MHz
- 0.5 to 100 V_{pk}: 1 Hz to 50 kHz

Connector

- BNC

Output XD (Denominator)

Impedance

- <100 Ω

Level

- TTL 0 to 5 V

Connector

- BNC

Output X1/10

Impedance

- <100 Ω

Level

- TTL 0 to 5 V

Connector

- BNC

Interface

Power

- 115 or 230 V_{rms} (<0 W)
- 12 or 24 VDC power optional

Ordering Information

408306-001-01 : Trig-Tek™ 313A-01

(Mature)

Frequency Divider, 115 VAC, Standard U.S. version

408306-001-02 : Trig-Tek™ 313A-02

Frequency Divider, 230 VAC version, European option (this option will come with an unterminated power cord)

408306-002-03 : Trig-Tek™ 313A-03

(Mature)

Frequency Divider, 12 VDC version

408306-002-04 : Trig-Tek™ 313A-04

(Obsolete)

Frequency Divider, 24 VDC version



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