



Trig-Tek™ 619B

Vibration Monitor

The Trig-Tek™ 619B Vibration Monitor is designed to monitor for excessive vibration and to provide a relay contact closure with alarm if a preset vibration level is exceeded.

Key Features

- Input range 0 to 20 g or ips
- Input frequency 5 Hz to 20 kHz
- Output 4 to 20 mA; 0 to 5 VAC; 0 to 5 VDC
- Alarm setting 2 to 20
- Alarm relay contacts
- Water-tight enclosure
- 115 VAC power

Product Information

The Trig-Tek™ 619B's alarm setting is set at the time of shipping according to your requirements. The unit is intended to work with a 100 mV/g sensor.

For monitoring purposes, the unit has a 0 to 5 V_{rms} Full Scale (FS) AC, 0 to 5 VDC, and a 4 to 20 mA current output for 0 to 20 g Pk or ips Pk at the input. The current output is "0" when the pickup is "Open" or "Shorted."

The input to the vibration monitor alarm is from an external 100 mV/g sensor. The sensor is interfaced through a 2-Pin connector.

The 619B can operate with 115 V_{rms} AC at 60 to 400 Hz. It is packaged in a water-tight enclosure.

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.

Acceleration Input

Sensitivity

- 100 mV/g

Impedance

- >100 k

Frequency Range

- 5 Hz to 20 kHz

Level

- 500 mV Pk (max)

Connector

- MS 3102A-105L-4P

Mate

- MS 3106A-105L-4S-SR

AC Output

Impedance

- <100 Ω

Level

- 250 mV_{rms}/g Pk or ips Pk

Frequency Response

- $\pm 5\%$ 10 to 3000 Hz (series with filters)

Contacts TB2

- "SIG AC," "S GND"

DC Output

Impedance

- <100 Ω

Level

- 250 mV/g Pk or ips Pk

Linearity

- $\pm 1\%$

Contacts TB2

- "SIG AC," "S GND"

4 to 20 mA Output

Sensitivity

- 0 to 20 g Pk or ips Pk/4 to 20 mA

Linearity

- $\pm 1\%$

Contacts TB2

- ± 4 to 20

Alarm Relay

Range

- 0 to 20 g or ips

Contacts TB1

- "NC," "COM," "NO"

Contacts Ratings

- 3.0 A to 125 VAC
- 5.0 A to 30 VDC
- 3.0 A to 125 VDC resistive

Contacts TB2

- "Reset," "S GND"
- (Short to Reset)
- (Open to Arm)

Power

115 V_{rms} AC

- 58 to 400 Hz

Contacts TB1

- "Line," "NUET," "CH GND"

Mechanical

Dimensions

- 5.5" L x 5.5" W x 2.9" H
(113.9 cm x 113.9 cm x 7.34 cm)

Ordering Information

408298-001 : Trig-Tek™ 619B

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