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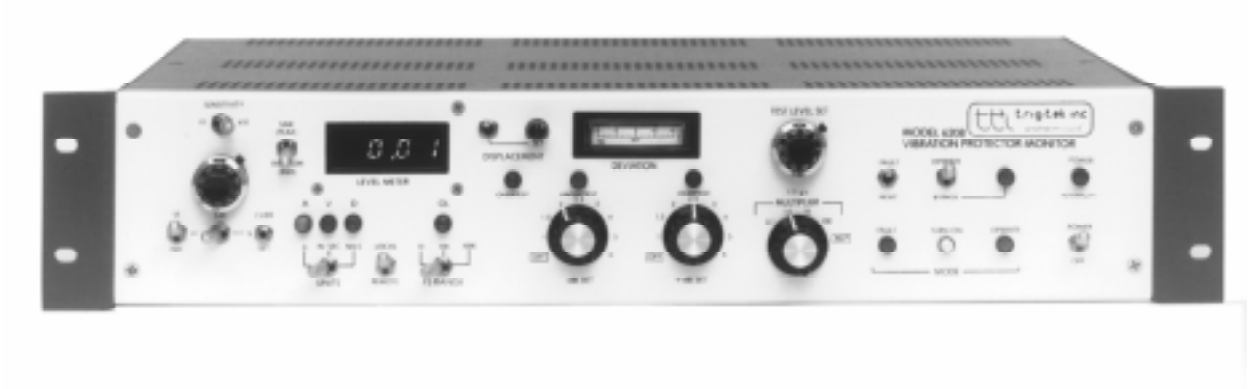
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Find the *EADS / Trig-Tek 620B* at our website: *Click HERE*

Model 620B
VIBRATION PROTECTOR-MONITOR



- **Protects Specimen and Shaker**
- **Over Travel Protection**
- **Undertest & Overtest Protection**
- **For Sine or Random Testing**
- **Prevent Run Away Controllers**
- **Transient-Free Shutdown**

The Trig-Tek, Inc. Model 620B Vibration Protector-Monitor is designed to provide independent, rapid shutdown protection for test specimens as well as vibration systems. The 620B system will accept charge or voltage mode accelerometer signals. The unit processes these signals to provide digital display of acceleration, velocity or displacement.

The 620B functions as a separate and independent monitor of displacement and selected test levels. Maximum displacement (mils p-p) abort limits can be set independent of the overtest and undertest shutdown limits, which are selectable in nine steps from 1 to 6dB. An abort of either monitor will initiate a transient free shutdown of the vibration system and activates the two auxiliary shutdown relays. Shutdown time is proportional to the operating frequency when in Sine mode (slower at low frequency and faster at high frequency) and is fixed at 330 milliseconds when in Random mode.

The 620B is a perfect addition to any vibration testing system regardless of manufacturer.

Specifications

Accel Input

Level ..... 1 to 110 pC/g or mV/g
Freq. Range ..... 2 to 20kHz
Impedance (pC) ..... Greater than 10 Megohms
(mV) ..... Greater than 100k ohms
Connectors ..... BNC and 10-32 Co-axial

Compressor Setup Inputs

Level ..... 0 to 10 V RMS Sine
0 to 2V RMS Random
Impedance ..... Greater than 50k ohms
Connectors ..... BNC, isolated

Ref Frequency Input

Level ..... 0.1 to 5V RMS
Impedance ..... Greater than 50k ohms
Wave Form ..... Sine Wave
Connectors ..... BNC, isolated

Accel Output

Level ..... 0 to 10 V RMS Sine
0 to 2V RMS Random
Sensitivity ..... 10 mV/g, 1000g's FS
Impedance ..... 50 ohms, 5mA maximum
Freq. Range ..... 3Hz to 10kHz
Amp vs. Freq. ..... ±3% of reading ±0.1% FS
Dynamic Range ..... 70 dB, minimum
Connectors ..... BNC, isolated

Velocity Output

Level ..... 0 to 10 V RMS Sine
0 to 2V RMS Random
Sensitivity ..... 10mV/in/sec, 1000in/sec FS
Impedance ..... 50 ohms, 5mA maximum
Freq. Range ..... 5 to 2000Hz
Freq. Response ..... ±3% 10 to 1000Hz
±5% 5 to 2000Hz (6dB/oct slope)
Dynamic Range ..... 46 dB, minimum
Connector ..... BNC, isolated

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VIBRATION PROTECTION/MONITOR Model 620B

Specifications

Charge Amp Output

Level ..... 0 to 10V RMS
Impedance ..... Less than 50 ohms
Sensitivity ..... 10 mV/g
Freq. Range ..... 2 to 20kHz
Connectors ..... BNC, isolated

Compressor Output

Level ..... 0 to 2V RMS Random, 0 to 10V RMS Sine.
Impedance ..... 50 ohms, 5mA maximum.
Gain ..... 0dB ±1dB (zero comp), -80dB (full comp).
Connector ..... BNC, isolated

Displacement Output

Level ..... 0 to 2V RMS Random, 0 to 10V RMS Sine.
Sensitivity ..... 10mV/in/sec, 1000in/sec FS.
Impedance ..... 50 ohms, 5mA maximum.
Freq. Range ..... 5 to 2000Hz
Freq. Response ..... ±3% 10 to 1000Hz
±5% 5 to 2000Hz, 6dB/oct slope.
Dynamic Range ..... 46 dB minimum
Connector ..... BNC, isolated

DC Output

Level ..... 5V for full scale meter range.
Impedance ..... 50 ohms, 5mA maximum.
Accuracy: Accel ..... ±3% of reading ±0.2% of FS.
Velocity ..... ±4% of reading ±1% of FS, -6dB slope.
Displacement ..... ±4% of reading ±2% of FS, -12dB slope.
Connector ..... BNC, isolated

Indicators

Level Meter ..... 3½ digit LCD Display
Turn-on LED ..... Illuminates until OPERATE mode is initiated. No feedback signal will cause a shutdown.
Operate LED ..... Illuminates when in OPERATE mode.
Fault LED* ..... Illuminates when fault occurs or when a signal is present at the compressor input and reset is depressed.

A LED ..... Illuminates if Acceleration is selected.
V LED ..... Illuminates if Velocity is selected.
D LED ..... Illuminates if Displacement is selected.

OL LED* ..... Illuminates if Overload condition occurs.
Overtest LED* ..... Illuminates if Overtest setting is exceeded.
Undertest LED* ..... Illuminates if Undertest condition exists.
DOT LED* ..... Illuminates if the DOT setting is exceeded.
Bypass LED ..... Illuminates when bypass is selected.
Power Interrupt LED* .... Illuminates when power is interrupted.

*These LED's will stay lit until RESET is depressed.

Controls

Sine-Random Switch ..... Selects RMS units in RANDOM position. Selects Peak units in SINE position.
Overtest Set Switch ..... A nine-position switch to set 1, 1.5, 2, 2.5, 3, 4, 5 or 6dB or OFF as the limit for overtest.
Undertest Set Switch .... A nine-position switch to set 1, 1.5, 2, 2.5, 3, 4, 5 or 6dB or OFF as the limit for undertest.
Test Level Set Dial ..... Ten-Turn Dial sets test level from 0.1 to 110 in conjunction with multiplier switch.
Multiplier Switch ..... Selects 0.1, 1, 10 or 100 as the multiplier for the Test Level Set Dial.
Operate-Bypass ..... Operate mode allows normal operation. Bypass mode connects the compressor input to the compressor output.
Protector INT-EXT ..... INT selects internal charge amplifier output to protection circuit. EXT selects external Protector Input jack to protection circuit.
Monitor INT-EXT ..... INT selects internal charge amplifier output to monitor circuit. EXT selects external Monitor Input jack to monitor circuit.
Fault "Reset" Switch ..... Resets unit after fault condition occurs.
Displacement Overtest .. Displays DOT level on meter in order to set.
(DOT) Set Switch
DOT Set Control ..... Provides DOT level set from 25 to 1000mils
SE-ISO Switch ..... Allows differential or single-ended operation when the pC/g acceleration input is used.
Current Set ..... Sets current supply for voltage mode accels.
FS Range Switch ..... Ranges meter for 10, 100 or 1000 full scale.
Power Switch ..... Power ON/OFF
Input Switch ..... Selects either pC/g or mV/g to input.
Sensitivity Dial ..... Ten-turn dial sets input sensitivity 1-110 EU/g. Used in conjunction with X1-X10 multiplier.
X1-X10 Switch ..... Selects multiplier for Sensitivity Dial.
Units Switch ..... Display Accel (g's), Vel. (ips) or Disp. (mil's).
Local-Remote Switch .... Allows remote (TTL) selection of meter units.

Terminal Strip

Start Up ..... Sets the operate latch when grounded.
Shutdown ..... Shuts down unit when grounded.
Shutdown Relays
Normal & Delayed ..... Both have NC-COM-NO contacts which activate when any set-in signal limit is exceeded. Remains activated until reset.
Remote Bypass ..... Activates Bypass feature when grounded.
Remote VEL/DISP ..... +5V selects Velocity or Displ. units to meter.

Dimensions ..... 3½" High X 19" Wide X 13" Deep
Power .....115V or 230V, 50 to 400Hz, <10 Watts



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