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MODEL 801B COMPRESSOR



- 60 dB Dynamic Range
- Crossover Network
- Compression Meter
- Automatic and Manual Set Compression Speeds
- Interlocked Safety Controls
- Isolated Chassis and Signal Grounds

The Trig-Tek, Inc. Model 801B Compressor is designed to provide automatic level control in systems using frequencies from 2 to 10 kHz to provide automatic compression of a signal. It is, of course, compatible with the Trig-Tek, Inc. Model 701B Sweep Generator. It can receive two feed-back signals, when working with the Trig-Tek, Inc. Model 610B Vibration Monitor (described on the rear page). Any two of the three signals, Acceleration, Velocity, and Displacement can be used to control the output from the Sweep Generator-Compressor combination. The parameter controlling is indicated by LED indicators on the front panel labeled Channel 1 and Channel 2. Front panel SET CONTROLS are adjustable for each channel to determine the level and crossover point of control from Channels 1 and 2. Compression speed is automatically selected (proportional to frequency), or manually selected. A rear panel terminal strip provides for isolated signal and chassis grounds, external shutdown, and external reset.

SPECIFICATIONS

SIGNAL INPUT	
Wave Form	Sine Wave
Impedance	50 kOhm
Frequency Range	2 Hz to 10 kHz
Level	5 V rms (nominal)
Connector	Isolated BNC (rear panel)
FEEDBACK INPUTS (Channel 1 and 2)	
Impedance	50 kOhm
Frequency Range	2 Hz to 10 kHz
Level	0-5 V rms
Connectors	Two isolated BNC (rear panel)
SIGNAL OUTPUT	
Impedance	Less than 50 ohm (5 mA max.)
Frequency Range	2 Hz to 10 kHz
Level	0 to 5 V rms
DC Off Set	0±5 mV
Hum and Noise	70 dB (min.) below F.S. output
Dynamic Range	60 dB
Connector	Isolated BNC
CONTROLS	
POWER—Switch	Turns Power On and Off
MODE—Switch	Selects Set-Up, Operate, or Bypass
Bypass*	Connects signal input to signal output
Set-Up**	Provides manual control for Set-Up
Operate***	Provides automatic compression of system as set
GAIN—Control	Functions in conjunction with MODE switch as described below: *In Bypass—A level control **In Set-Up—Adjusts output for desired control as indicated on Vibration Monitor ***In Operate—Sets compression range as indicated on Compressor Meter.
Reset	When the MODE switch is changed, the signal output is forced to full compression. The GAIN control CCW detent resets the circuits to allow bringing it out of full compression.
Lo-Hi—Switch	(Two switches) Sets 1-10 or 10 and up gain range for the feedback input.
SET LEVEL—Control	(Two controls) Permits setting the Level and crossover points at which the compressor controls.
SPEED—dB/sec.	Sets 1, 3, or 10 dB/second compressor speed.
SPEED—Auto-Manual	Selects automatic or manual control of up to 100 times the set compression speed (1, 3, or 10 dB/sec.).
MULTIPLIER—LIMIT	In Manual, this control multiplies the compressor speed continuously from 1 to approximately 100 times. In Automatic, the compressor speed increases with frequency until the Limit control setting is reached, and then holds at that point for even higher frequencies.
INDICATORS	
POWER—LED	Illuminates when power is ON.
Channel 1 LED Channel 2 LED	Indicates which feedback input channel is controlling.
Reset LED	Indicates when unit is in full compression and must be reset by turning GAIN control full CCW Interlocked with MODE switch.
COMPRESSION—Meter	Indicates gain deviation from set point.

DIMENSIONS		
Width	19 in.	48.2 cm
Height	3.5 in.	8.9 cm
Depth	10 in.	33 cm
Weight	10 lb.	

POWER

110 or 220 V rms ±10%
50-400 Hz
Less than 8 W

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