

ThermoKeytek 801-4H IEC-IEEE Burst Generator

The stand-alone, extended-range ThermoKeytek 801-4H, meets and exceeds the EFT/Noise™ burst generation specifications of IEC 1000-4-4 (IEC 801-4), as well as the revised ANSI/IEEE C62 .41 and other standard tests such as the EN 61000-4-4. It incorporates a built-in coupler/decoupler (coupler/filter) for ac power lines up to 277V, 50-60 Hz, to 16A.

The Keytek 801-4H provides the IEC-specified bursts of 5 ns / 50 ns double exponential impulses. Totally repeatable waveforms, high reliability and long life are key features of the design. Voltage is adjustable from 250V to 8 kV - twice the IEC 801-4's requirement of 4 kV.

For the Keytek Model 801-4H, repetition rate is selectable to at least twice the IEC 1000-4-4 (IEC 801-4) - specifications: 10 kHz to 4.4 kHz, - and then 2.5 kHz to 8 kHz (twice the IEC's maximum required voltage level). The burst length is from 1 to 20 ms; and burst repetition period is 0.3s to 5s .

A covered, fully-interlocked capacitor clamp, Model CCL 801, is available for coupling the EFT/Noise™ burst into I/O lines (including data and signal lines). All clamp hinges use nickel-plated, beryllium copper finger stock to insure excellent RF performance over time.

Specifications

Parameters	Performance
Wave	Unidirectional Impulse
Character	5 ns/50 ns
Individual or Burst	Burst
Amplitude	±0.25 to ± 8kV
Output Zo	50 ohms
Wave Repetition freq.	Selectable, to 10 kHz to 4.4 kHz; 2.5 kHz to 8 kHz
Burst Duration	1 ms to 20 ms
Burst Repetition Period	0.3s to 5s
Coupler/Decoupler	Internal
Capacitor Clamp	Model CCL-801, Optional
Synch with Power Line	Optional
Adjustable Line Phasing	Optional
External Trigger	Optional
488-Bus Control	Optional