COM-POWER CORPORATION

Features

- Compliant with ACTA (formerly FCC) Part 68, ANSI/TIA-968-B and Industry Canada CS-03 Surge Waveform Requirements
 - \rightarrow Type A & B Surge (Metallic & Longitudinal)
 - \rightarrow Power Line Surge (with integral CDN)
- Can be operated via front panel interface or via remote PC through fiber optic interface using supplied TransWare-168 software
- Voltage (1000x1) and Current (100x1) Monitor Ports located on front panel.
- Three-Year Warranty

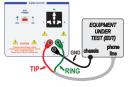


Description

The SGTEL-168 Telecom Surge Generator offers a single-box solution for Type A, Type B and power line surge simulations on telecommunications equipment per ACTA (formerly FCC) Part 68, ANSI/TIA-968-B and Industry Canada CS-03 standards.

Type A and Type B surges are applied through the appropriate A/B/G surge output terminals (4-mm safety

sockets) located on the front panel. The line(s) to be tested are connected directly to these output terminals for the test, as shown to the right.



Power line surges are typically applied through the integral coupling/decoupling network (CDN), which also serves as the EUT power port. Alternatively, in cases



where an external CDN is needed, the power line surge may be applied to the front panel A/B output terminals, to which the external CDN connects.

The SGTEL-168 Telecom Surge Generator is equipped with voltage (V_{mon} [100x1]) and current (I_{mon} [100x1])

monitor ports and sync output port. These ports can be connected directly to an oscilloscope to verify the peak voltage (open circuit)



and peak current (short circuit). The sync output port can be connected to the external trigger input of the oscilloscope.

User Interfaces & Features

The SGTEL-168 can be controlled remotely via its fiber optic interface and USB converter. Using the supplied TransWare-168 PC software, the user can create, save

and run custom test sequences, or simply apply surges on an individual basis.



Using the TransWare logging functions,

the user can enter notes or comments while the test is running, such as EUT observations, which are automatically sorted chronologically with respect to the most recent surge event. The log can be exported after the test for inclusion within the test report.

The SGTEL-168 is also able to be controlled locally using the control keypad and the easy-to-read backlit display



on the front panel.

The safety interlock port can optionally be connected to an

external switch, which will automatically disable the surge generator output when the switch contacts open.

Calibration

The SGTEL-168 Surge Generators are individually tuned and calibrated to meet the applicable requirements of of ANSI/TIA-968-B and Industry Canada CS-03 standards. The calibration data and certificate are provided, with NIST traceability.

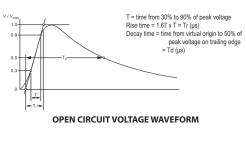
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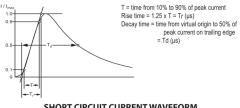
Telecom Surge Generator SGTEL-168

Specifications

Specifications All values are typical, unless sp All specifications are subject to change without							
OUTPUT WAVEFORM	PARAMETERS						
Surge Type	Open Circuit Voltage - V_{pk} (Volts)	Rise Time - T_r (µs)	Decay Time - T_d (µs)	Open Circuit Current - I_{pk} (Amps)	Rise Time - T_r (µs)	Decay Time - T_d (µs)	
Type A (metallic)	±800-880	6-10	560-860	100-115	5-10	560-760	
Type A (longitudinal)	±1500-1650	6-10	160-260	200-230	5-10	160-210	
Type B (metallic)	±1000-1100	9 ±2.7	720 ±144	25-27.5	5 ±1.5	320 ±64	
Type B (longitudinal)	±1500-1650	9 ±2.7	720 ±144	37.5-41.3	5 ±1.5	320 ±64	
Powerline (Line-Neutral)	±2500-2750	1-2	10-19	1000-1250	1-2	10-19	
MONITOR PORTS							
Voltage Monito	1000:1 ±10% (V _(actual) = V _(measured) * 1000)						
Current Monitoring Port (I _{mon})		100:1 ±10% (I = V _(measured) * 100) [0.01 Volts/Amp]					
Sync Output Port		o-5 V _{DC}					
ELECTRICAL							
System Power Input		100-250 V _{AC (rms)} , 50/60 Hz (300 VA Max.)					
Fuse Type		5 Amps (T)					
EUT Power Input		250 V_{AC (rms)} (maximum), 50/60 Hz (16A Max.) 100 V_{DC} (maximum) 16 Amps up to 48 V _{DC} , 10 Amps up to 100 V _{DC}					
INPUT/OUTPUT CONNECTORS							
EUT Power Input Port		ABB 216B6 16A IP44 Socket Inlet (mating connector provided)					
EUT Power Output Port		Universal Multi-Configuration AC Socket					
SGTEL-168 System Power Input Port		IEC C13 Receptacle					
Safety Interlock Port		4-pin, 7mm Receptacle (mating push-pull plug provided)					
Fiber Optic Port		Avago Duplex Latching POF jack					
(A/B/G) Surge Output Ports		(3) 4mm (banana) safety sockets					
Monitor Output Ports		(3) BNC-type (female)					
MECHANICAL							
Dimensions (H)x(W)x(D)		(4U) 7.75" x 19" x 24.25" (19.7 x 48.3 x 61.6 cm)					
Weight		61 lbs (27.7 kg)					
ENVIRONMENTAL							
Operating Temperature		40°F to 104°F (5°C to 40°C)					
	Forced Air (integral fan)						

Waveform Definitions





SHORT CIRCUIT CURRENT WAVEFORM

Product Dimensions

