

# suRGclear RG101

## Communications Connectivity and Protection Enhanced Hybrid 5-Pin Protection Module Replaces ST101

Richard Gray's suRGclear™ 5-pin protection modules utilize the latest protection technologies to protect today's converged high speed communication and data networks from damage caused by lightning, AC induction (sneak currents), ESD, power cross faults and AC transients.

The RG101 Enhanced Hybrid is Specifically designed to protect systems operating in Harsh, Demanding and Remote Installations, such as Wireless, Transportation and similar communications and signaling Infrastructure.  
Precise Overvoltage Coordination and Equal Balanced performance between all modes (T-G, R-G, and T-R) Enhances Protection and eliminates signal degradation.

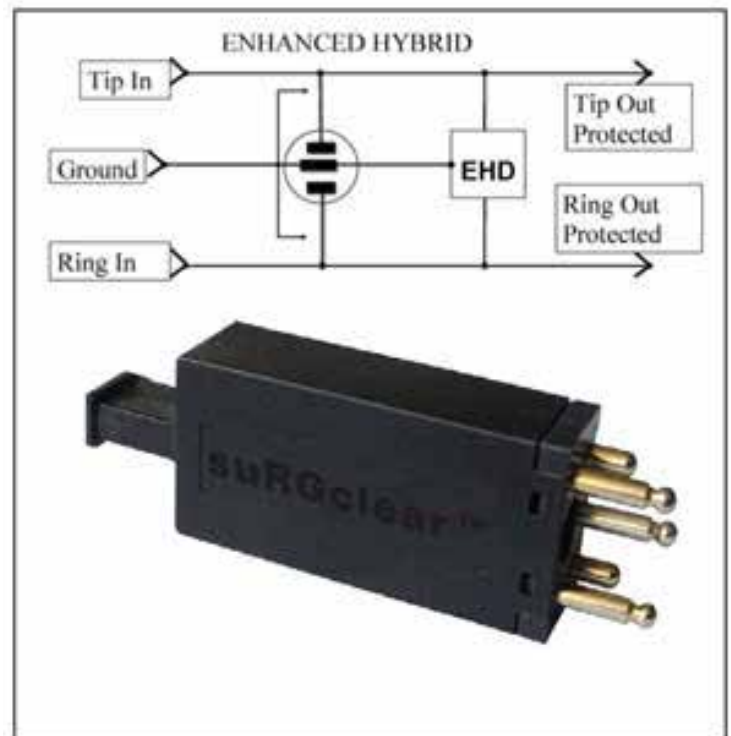
This 5 pin module is designed to fit into our RG series Protected Network Interfaces and other Industry standard building entrance terminals.

### Features

- Enhanced Hybrid Design
- Very low capacitance and capacitive imbalance
- Standard test access ports
- Gold Plated In/Out Pins
- Integrated unbalanced failsafe mechanism
- Compatible with industry standard 5-pin panels
- For Heavy Duty Applications

### Benefits

- Coordinated overvoltage protection in all modes
- Stops damaging transients without signal loss
- Enhances network reliability
- Reduces down time, network troubles and service calls
- UL 497 Listed
- Meets Telcordia GR-974, NEC and CEC requirements
- 6 year warranty (Contact factory for details)



RICHARD GRAY'S POWER COMPANY is a US owned and operated manufacturer of AC Power Delivery Systems and Communications Protection/Connectivity products. RGPC's mission is to utilize its focus, experience and expertise in providing an enhanced, secure and safe environment where AC Power, Communications and Data operate in harmony and maximum efficiency in today's converged infrastructure.





## Enhanced Hybrid Characteristics:

DC Voltage Limiting			
T-G	180 V Maximum	Values Typical Up to 2000V/second	
R-G	180 V Maximum		
T-R	180 V Maximum		
Impulse Voltage Limiting			
T-G	250 V Maximum	At 100V/μsecond	
R-G	250 V Maximum		
T-R	250 V Maximum		
Impulse Voltage Limiting			
T-G	300 V Maximum	At 1000V/ μsecond	
R-G	300 V Maximum		
T-R	300 V Maximum		
Capacitance			
T-G	<20pF	@ 1MHz, 0 Vdc	
R-G	<20pF		
T-R	<20pF		
Capacitive Imbalance (matching) T-G and R-G	< 1pF		
Impulse Surge Life	>1500 Operations	10A, 10x1000μs	
	>100 Operations	100A, 10x1000μs	
	>100 Operations	500A, 10x1000μs	
Impulse Reset	Clears < 30 ms	Up to 825mA/140Vdc	

## Operating Characteristics:

Line Resistance	Less than .1 Ohms for maximum signal efficiency
Line imbalance	Less than .1 Ohms for maximum signal efficiency
Safety	Fast acting unbalanced fail-safe mechanism
Storage Temperature	-40°C to 85°C
Operating Temperature	-40°C to 65°C

\* All measured at 20°C