suRGclear ™ RG5 H-Series

5-Pin Protection Modules with Hybrid technology & Enhanced Balancing

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.

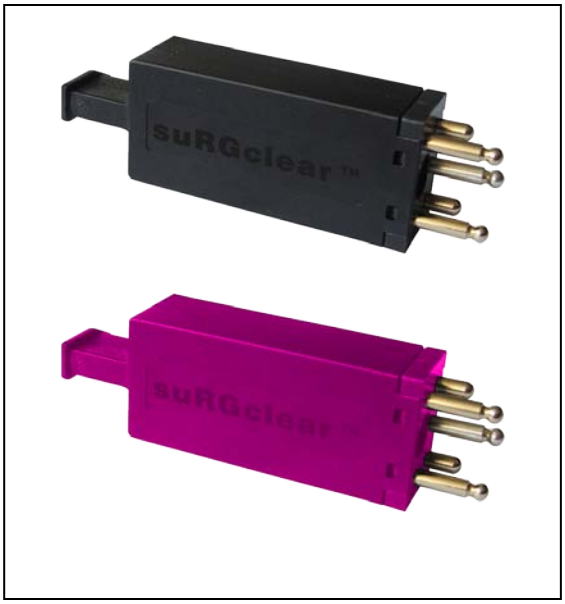
The ***RG5 H-Series*** are industry standard modules intended for use in central offices, remote and building entrance terminals.

This series incorporates a hybrid blend of Gas Tube and Solid State technologies that improve let-through performance versus gas tube only module designs. The optional Enhanced Balancing version coordinates, equalizes (T-G, R-G, and T-R) and limits overvoltage surge events.

In applications or environments that require over current (sneak current) protection, self healing resettable PTCs are an available option.

Overvoltage breakdown is preprogrammed to 230V or 300V levels. Overcurrent (sneak current) protection ratings are set at 180mA operating current.

All modules incorporate an integrated unibalance failsafe mechanism to assure compliance with NFPA, UL and Telcordia requirements.



RG5 H-Series 5-pin modules

Features

- Multistage Hybrid Design with Enhanced Balancing
- Low capacitance and capacitance imbalance
- Optional test access ports
- Integrated unibalance failsafe mechanism
- Compatible with industry standard 5-pin panels
- Optional Self-Healing PTC

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 Telecordia GR-974, NEC and CEC requirements
- Enhanced Balancing suitable for high speed networks
- 6 year warranty (Contact factory for details)

About Richard Gray's Power Company (RGPC)

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.

suRGclear ™ Hybrid and Enhanced Balancing Characteristics

Overvoltage Characteristics	230V Hybrid	300V Hybrid	230V Enhanced Balancing	300V Enhanced Balancing	Notes
DC Voltage Limiting					
T-G	230 V	300 V	230 V	300 V	Values Typical
R-G	230 V	300 V	230 V	300 V	Up to 2000V/second
T-R	414 V	540 V	230 V	300 V	
Impulse Voltage Limiting					
T-G	< 350 V	< 600 V	< 350 V	< 600 V	
R-G	< 350 V	< 600 V	< 350 V	< 600 V	At 100V/µsecond
T-R	< 900 V	< 1500 V	< 350 V	< 600 V	
Impulse Voltage Limiting					
T-G	< 500 V	< 700 V	< 500 V	< 700 V	
R-G	< 500 V	< 700 V	< 500 V	< 700 V	At 1000V/ µsecond
T-R	<1300 V	< 1800 V	< 500 V	< 700 V	
Capacitance	<50pF	<50pF	<20pF	<20pF	@ 1MHz, 0 Vdc
Impulse Surge Life	>1500 Operations				10A, 10x1000µs
	>100 Operations				100A, 10x1000µs
	>100 Operations				500A, 10x1000µs
Impulse Reset	Clears < 30 ms				Up to 825mA/140Vdc

Overcurrent Self Healing Characteristics		Notes
Operating Current	180mA	At 20º C
Activation Time @ 350mA	< 210 seconds	Self Healing Resettable PTC
Line Resistance	< 4 Ohms	
Line Imbalance	<0.5 Ohms	

Safety	Fast acting unibalanced fail-short mechanism	

Storage Temperature	-40°C to 85°C	
Operating Temperature	-40°C to 65°C	

All measured at 20°C

Ordering Information (Part Numbers)

RG5 0 300 G R015 T T

RG5 Series

Applications
0- Standard Service (Black)
1- High Exposure (Brown)
2 -Special Service (Red)
6 -T1 (Blue)
7- Broadband/VDSL (violet)

Overvoltage Protection
000: No Overvoltage Protection
230: 230 Volts
300: 300 Volts

Technology & Balance option
H: Hybrid
HE: Enhanced Balancing

Overcurrent Protection
N000: No Overcurrent Protection
R015: Resettable self healing PTC

Pin Finish
T: Tin
G: Gold

Test Access
T: Test Ports
N: No Test Ports

RICHARD GRAY'S POWER COMPANY (RGPC)
The Power Behind the Performance

Www. richardgrayspowercompany.com
5500 PRYTANIA ST. BOX 334 NEW ORLEANS, LA 70130 p: 504.247.0300 f: 708.395.2508