

# Power House – RA-Pro Low Voltage Data Line Protection Systems

*The RA- Pro Modular System provides lightning protection for the following Dispenser and Card reader Distribution/Junction boxes:*

*< Gilbarco – Tokheim – Wayne >*

*And down line protection for:*

*< Fuel and forecourt controllers >*

*< All other sensitive electronics >*

## Data Protection Specifications

### **Static Conditions**

Max continuous voltage	± 8Vp
Max data rate	100Mbps duplexed
Series resistance	1.5 ohms
Insertion loss @ 100Mbps	<0.5dB
Operating temperature	14 – 131°F

### **Transient Conditions**

Max voltage withstand	>10kV
Max current withstand	>10kA
Typical protection levels	
(Line to earth)	12V
(Line to line)	12V
Typical response time	<5ns



The non-metallic enclosure is capable of housing the protective modules in groups of 4,8,12 & 16 for Gilbarco or Wayne and 4, 6, or 8 for Tokheim.

Each module will provide protection for a single pair of signal wires, plus ground, or in the case of Tokheim 3 wires plus ground.

The incoming signal wires are screw terminated in series, to the base of the protection module assembly. The output side of the base then goes to the original termination point of the original incoming wire. A ground connection is made for each module to a common ground bus located inside the non-metallic enclosure box. This ground bus is then connected externally to a solid system ground point.

The yellow and blue wire harness assembly provides each input and output wire to be identified by color as to input or output and individual card reader or dispenser identification. This method of identification has reduced the installation time and reduced problems related to making improper connections.

The module base remains in place. Upon failure of a module, the indicator light for that particular module will be out. By removal of the module the circuit will again function, with however no transient protection until a replacement module is reinserted into the module base. We recommend having several spare modules on site.

*For more information please contact us at:  
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