Three-stage RS-232, RS-422/485 Surge Protectors

Models 485HESP, 422HESP, 232HESP



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PRODUCT FEATURES

- •Three stages of protection on every data line
 - 1) Gas discharge tube
 - 2) Series resistor
 - 3) Transient voltage suppressor
- Protected signal ground connection
- Rugged terminal block connections
- · Dedicated chassis ground lug

These three-stage surge protectors protect against lightning strikes, power surges, and other types of voltage disturbances with three stages of protection for each line: a gas discharge tube followed by a series resistor and finally a Transient Voltage Suppresser (TVS).

The surge protectors housed in a tough metal, panel mount case with a protected signal ground connection and dedicated chassis ground lug. In order to work properly, it is important to have a good connection between the #10 screws and a solid earth ground. Two terminal posts and two metal mounting brackets provide a good ground connection.

ORDERING INFORMATION

MODEL NUMBER	INTERFACE	LINES PROTECTED	MOUNTING
485HESP	RS-422/485	(3) RS-422/485	Panel Mount
422HESP	RS-422/485	(5) RS-422/485	Panel Mount
232HESP	RS-232	(5) RS-232	Panel Mount

ACCESSORIES

CU15B - Copper Grounding Strap

Learn More About Surge Suppression & Isolation

These informative articles are available at www.advantech-bb.com:

- "Isolation: Your Best Investment for Reliability"
- "Dataline Isolation Theory"
- "Dataline Surge Protection"

SPECIFICATIONS

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SERIAL TECHNOLOGY				
485HESP				
Connectors, line	3-position terminal blocks			
Connectors, equipment	3-position terminal blocks			
232HESP/422HESP				
Connectors, line	5-position terminal blocks			
Connectors, equipment	5-position terminal blocks			
SURGE SUPPRESSION				
Clamping Voltage - stage 1	72 VDC, minimum 108 VDC, maximum			
Series Resistance - stage 2	2.7 Ohms			
Clamping Voltage - stage 3	Models 422HESP, 485HESP: 6.45 VDC, minimum 7.14 VDC, maximum Model 232HESP: 14.3 VDC, minimum 15.8 VDC, maximum			
Clamping Time	Less than 5 x10 9 seconds			
Dimensions	11.4 x 8.4 x 4.6 cm (4.5 X 3.3 x 1.8 in)			
Installation	In-line			
Weight	0.19 kg (6.7 oz)			
ENVIRONMENTAL				
Operating Temperature	0 to +70 °C (+32 to +185 °F)			
Storage Temperature	-40 to +85 °C (-40 to +185 °F)			
Operating Humidity	0 to 95% Non-condensing			
APPROVALS / CERTIFICATIONS - 485HESP				
2011/65/EU - Reduction of Hazardous Substance Directive				
2012/19/EU - Waste Electrica	2012/19/EU - Waste Electrical and Electronic Equipment (WEEE)			

All product specifications are subject to change without notice. 485HESP, 422HESP, 232HESP_3117ds

