Three-stage RS-422/485 Surge Protectors

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 meet IEEE 1000-4-5: 1995 and IEEE C62.41-1991 recognized standards for premium surge protectors. It protects against lightning strikes, power surges, and other types of voltage disturbances with three stages of protection for each supported line: a gas discharge tube followed by a series resistor and finally a Transient Voltage Suppresser (TVS). Three RS-422/485 signals on terminal blocks are supported with a clamping voltage of approximately 6.8 Volts.

These 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. The 485HESP provides two terminal posts and two metal mounting brackets to provide a good ground connection.

Surge Protection Standards

IEC 1000-4-5: 1995 "Surge Immunity Test" and IEEE C62.41-1991 "IEEE Recommended Practice on Surge Voltages in Low-Voltage AC Power Circuits" are the recognized standards for surge protection. Advantech B+B SmartWorx' heavy duty surge protectors have been tested at 6 kV to meet these two specifications.

Learn more about surge suppression & isolation www.bb-elec.com/TechLibrary

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

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

SPECIFICATIONS

SPECIFICATIONS				
SERIAL TECHNOLOGY				
485HESP				
Connectors, line	3 position terminal blocks			
Connectors, equipment	3 position terminal blocks			
422HESP/232HESP				
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	6.45 VDC, minimum 7.14 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 / CERTIFIC	CATIONS - 485HESP			
FCC Part 15, CISPR, EN 55022: 2010 + AC:2011 Class A Emissions				
CE				
EN 61000-6-1: 2007 Generic Standards for Residential, Commercial and Light-				
Industrial Environments				

All product specifications are subject to change without notice.

485HESP, 422HESP, 232HESP 1716ds



EN 61000-4-5: 2006 Electrical Surges

Download complete Declaration of Conformity at www.bb-elec.com