

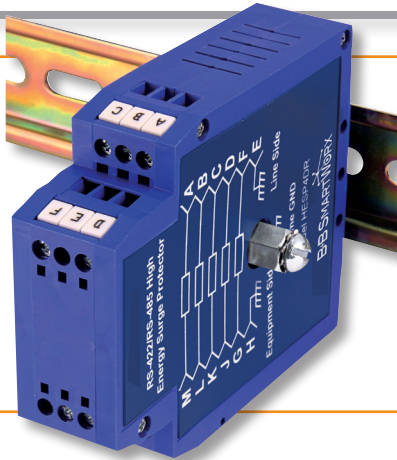
Three-stage DIN Rail Surge Protector

HESP4DR

B+B SMARTWORX

Powered by

ADVANTECH



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
- Wide operating Temperature
- NEMA TS2

Model HESP4DR meets 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 Suppressor (TVS). Five RS-422/485 signals on terminal blocks are supported with a clamping voltage of 6.8 Volts.

The HESP4DR is housed in a sturdy DIN rail mount case with a #10 grounding screw. In order to work properly, it is important to have a good connection between the #10 screw and a solid earth ground.

ORDERING INFORMATION

MODEL NUMBER	INTERFACE	LINES PROTECTED	MOUNTING
HESP4DR	RS-422/485	(5) RS-422/485	DIN Rail Mount

ACCESSORIES

CU15B - Copper Grounding Strap



IN THE FIELD

Parking Lot Security

Industry: Transportation – Intelligent Parking
Product: High Energy Surge Protector



[www.bb-elec.com/
Parking](http://www.bb-elec.com/Parking)

HESP4DR

Carrier data charges may apply.

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”

Three-stage Surge Protector

HESP4DR



SPECIFICATIONS

SERIAL TECHNOLOGY

Connectors, line	5 position terminal blocks
Connectors, equipment	5 position terminal blocks

SURGE SUPPRESSION

Clamping Voltage	72 VDC, minimum
- stage 1	108 VDC, maximum
Series Resistance	2.7 Ohms
- stage 2	
Clamping Voltage	6.45 VDC, minimum
- stage 3	7.14 VDC, maximum
Clamping Time	Less than 5×10^{-9} seconds
Dimensions	3.55 x 7.88 x 10.53 cm (1.4 x 3.1 x 4.2 in)
Installation	DIN rail mount
Weight	0.114 kg (4.02 oz)

ENVIRONMENTAL

Operating Temperature	-40 to 80°C (-40 to 176°F)
Storage Temperature	-40 to 85°C (-40 to 185°F)
Operating Humidity	0 to 95% Non-condensing

APPROVALS / CERTIFICATIONS - HESP4DR

FCC Part 15, CISPR, EN 55022: 2010 + AC:2011 Class A Emissions
CE, NEMA TS2

EN 61000-6-1: 2007 Generic Standards for Residential, Commercial and Light-Industrial Environments

EN 61000-4-5: 2006 Electrical Surges

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

MECHANICAL DIAGRAM

