DB9 Surge & Lightning Protection

DB9

Surge protect communications lines using DB9 connections feeding electronic equipment, automation and pool controls to reduce lockups, glitches, reprogramming issues and lightning damage.

Improve power quality for your sophisticated electronic loads. **Rebooting, reprogramming and replacing processors, circuit boards and components** can be a never-ending battle. **Occasional glitches** in the system are as simple as equipment locking up or turning on and off without user input to **wide spread damage during a severe lightning storm**. Microprocessors read information through current pulses as binary code (0s and 1s). As different pieces of equipment, appliances and components turned on and off, voltage and current pulses, known as transients, are generated. These pulses of energy are distributed throughout every piece of equipment in the system. Depending upon the size and frequency of these pulses, the problems will vary. As microprocessors try to function, these transient pulses of energy will cause lock-ups where data can become lost or corrupted. **Larger pulses will cause catastrophic failure while smaller pulses degrade the life and reliability of these systems and controls.**

Specifications

Maximum Input Power: 100 Watt RMS/Channel

Applications: RS232 Systems w/ DB9 connections

Max Data Rate: 10Mbps

Design: Multistage hybrid fail-safe design

Warranty: 3-Year Unlimited Free Replacement

Max System Voltage (peak): 23VDC

Series Resistance: <1ohm

Max Operating Current: 500mA continuous with a 10 degree c increase above ambient

Strength: 5000 Watts per wire

Mode of Protection: Line-ground

Response Time: < 1 nanosecond

Number of Protected Pins: All Pins Protected

Enclosure Type: Polycarbonate Rated V-0. Must be used indoors or protected from weather in watertight enclosure.

Signal Connection: Female In, Male Out DB9 Connector

Ground Connection: Ground lug included

Mounting Method: Din Rail or Screw Down Mounted. See drawing.

Operating Temperature: -40° C to 85° C (-40° F to 185° F)

Weight: 0.3 lbs. (0.13 kg)

Dimensions: 3.94"H x 1.40"W x 2.28"D

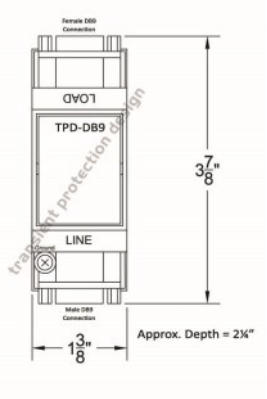
DB9 Performance Specifications

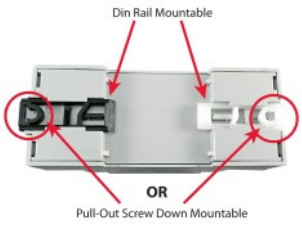
Model Number	Description	Maximum Data Rate
TPD-DB9	All Pins Protected DB9 Female Input DB9 Male Output	10 Mbps

Specifications subject to change without notice, see web site www.TPDsurge.com or latest revisions.

Description

The TPD-DB9 offers the highest quality data line protection available. Strategically protect data pathways that are connected to controls. Installing the TPD-DB9 will reduce damage caused by surges that enter on these pathways and destroy lighting , security, and home automation controls..
The TPD-DB9 has one DB9 female input connector and one DB9 male output connector.





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www.TransientProtectionDesign.com

Tech Note: For installation techniques please refer to installation manual.