

DDC SERIES



THE DDC SERIES OF DATA DISTRIBUTION ELECTRICAL TRANSIENT SURGE PROTECTORS ENSURES THE RELIABLE AND CONTINUOUS OPERATION OF NETWORKED EQUIPMENT CONNECTED TO 10 BASE T ETHERNET, RS422, RS423, RS232, ARCNET, TOKEN RING, CSU/DSU, DDS, ISDN, T-1 AND MOST OTHER COMMUNICATION INTERFACES.

DDCS DELIVER:

- ▶ State-of-the-art avalanche diode technology
- ▶ Compact in-line installation
- ▶ High speed, high energy handling capability
- ▶ Low shunt capacitance for reduced signal loss
- ▶ Expandable design permitting protection of up to 1000 wires or 12 ports in a single package

YOU RECEIVE:

- ▶ Cost effective, superior equipment security
- ▶ Improved reliability and maximized system uptime
- ▶ Modular, space-saving design
- ▶ Adaptability to most industry applications
- ▶ Five Year Limited Warranty

Damaging electrical transient surges can enter electronic equipment through any pathway provided. Even with power protection in place, transient surge energies generated within a building by sources such as inductive load switching, ground loop currents and electrostatic discharge may be clamped into the communication ground, damaging expensive communications hardware.

DDC Series surge protectors are specifically designed to provide added security

for electronic devices with extremely low tolerance for voltage rises, ground loop energies to equipment networked at distances greater than 30 feet and equipment installed in high lightning areas. DDC models protect virtually any communication interface including: 10 Base T Ethernet, RS422, RS232, RS423 and most high speed LAN/WAN interfaces. Combined into a compact interface unit, DDC Series models exhibit an extremely fast response time of less than 10 nanoseconds and can be configured to incorporate solid-state thyristors or avalanche diode technology with high speed clamping of less than 1 picosecond.

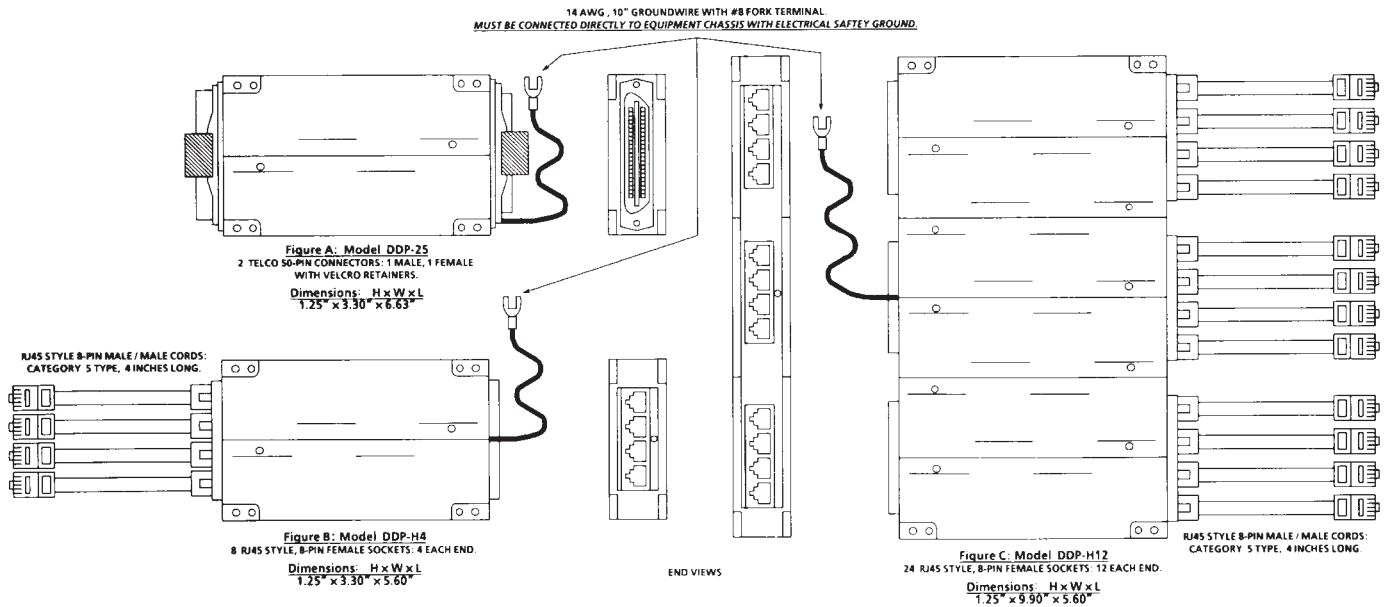
DDC Series interface connectors are available in standard configurations to protect all pins. Units can also be specifically configured to safeguard special configurations or expanded to protect up to 12 ports in a single package. Whether installed to protect a single communication line or an entire installation, DDC Series models are the most practical, most cost effective solution to damaging overvoltage problems.

**Quality Engineered
to protect**

- ▶ LAN Hubs
- ▶ Concentrators
- ▶ Multipoint Interfaces

**from damage and down-
time resulting from com-
mon electrical disturbances**

CONNECTOR TYPE	SYSTEM APPLICATION AND MODEL NUMBER					
	10 Base T Ethernet	Token Ring	RS422,RS485, or RS423	RS232	ARCNET	CSU/DSU Non span T-1
Single RJ21 Protects 25 Pairs (50 wires) Figure A	DDC-25-E	DDC-25-T	DDC-25-E	DDC-25-T	DDC-25-A	DDC-25-B
Double RJ21 Protects 50 Pairs (100 wires) Not Shown	DDC-50-E	DDC-50-T	DDC-50-E	DDC-50-T	DDC-50-A	DDC-50-B
4 Position RJ45/RJ11 Hub Protector Figure B	DDC-H4-E	DDC-H4-T	DDC-H4-E	DDC-H4-T	DDC-H4-A	DDC-H4-B
8 Position RJ45/RJ11 Hub Protector (Not Shown)	DDC-H8-E	DDC-H8-T	DDC-H8-E	DDC-H8-T	DDC-H8-A	DDC-H8-B
12 Position RJ45/RJ11 Hub Protector Figure C	DDC-H12-E	DDC-H12-T	DDC-H12-E	DDC-H12-T	DDC-H12-A	DDC-H12-B



	ELECTRICAL SPECIFICATIONS					
	10 Base T Ethernet	Token Ring	RS422,RS485, or RS423	RS232	ARCNET	CSU/DSU Non span T-1
Stand. Clamp Voltage	7.5 Volts	18 Volts	7.5 Volts	18 Volts	30 Volts	60 Volts
Peak Pulse Current 8/20(sec s.c. waveform @ Vc1)	750 Amps	340 Amps	750 Amps	340 Amps	370 Amps	200 Amps
Response Time	< 10 ns	< 10 ns	< 10 ns	< 10 ns	< 10 ns	< 10 ns
Maximum Shunt Capacitance	< 40 pF	< 40 pF	< 40 pF	< 40 pF	< 40 pF	< 30 pF
Meets or Exceeds Category 5	YES	YES	YES	YES	—	—