Electro Standards Laboratories
ADVANCED SYSTEMS DESIGN & SERVICES

Protect Your Computer's Data Interface

Destructive transient voltages caused by lightning, brownouts and rolling blackouts!

Sure-Guard and **Sure-Guard Plus** **Surge Suppressors** are designed to limit transient voltages that damage hardware and disrupt data transmission between computers at the **DB25 Serial or Parallel data interface**.

Data Communications line protection can no longer be overlooked. Its role in a well managed effective system is essential to the overall welfare of the data-processing environment. The cost of protection from lightning, industrial disturbances, motor switching, and magnetic/electrostatic induction from power lines is surprisingly inexpensive and maintenance free.

System reliability depends upon a well protected electrical environment. UPS and power line surge suppressors **do not** provide complete protection for **data lines.** Add Sure-Guard to protect your data lines.

Surge Suppression!

Serial Data Interface:

Model 303 RS-232 *SURE-GUARD*
Protects transmit data, receive data and signal ground inputs (pins 2, 3, & 7)

- Protects RS-232 Ports against destructive power surges
- Clamps damaging voltages to safe EIA limits
- Shunts current surges to frame ground
- Passes signals having proper EIA RS-232 levels
- Data Rate 0 - 20,000 BPS

Model 308 RS-232 *SURE-GUARD PLUS*
Protects five handshake control signals in addition to the transmit data, receive data, and signal ground inputs (pins 2 thru 8, and 20).

- Expanded protection that includes handshake control signals
- Remaining pins are carried through
- Fast Acting MOV devices protect the following signals:

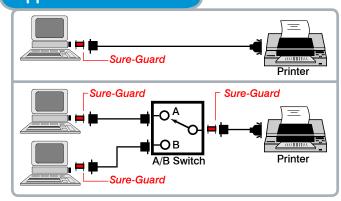|	
2	Transmit Data
3	Receive Data
4	Request to Send
5	Clear to Send
6	Data Set Ready
7	Signal Ground
8	Data Carrier Detect
20	Data Terminal Ready

Parallel Data Interface:

Model 316 PC/Parallel *SURE-GUARD*
Protects all 16 data, handshake control, and ground signal lines (pins 1 thru 14, 16 and 20)

- Protects parallel printer interface against power or switching surges.
- Clamps damaging voltages to safe limits
- Shunts current surges to ground shield
- Attaches easily to common port or peripheral sharing switch
- Attaches easily to PC/Parallel Port

Applications:

Sure-Guard — Printer

Sure-Guard — A/B Switch — Sure-Guard — Printer
Sure-Guard