



Process Instrumentation

SURGE SUPPRESSION

Surge Protection AC Power & 4-20mA

The ECHO Surge Suppression was specifically designed to protect our ultrasonic level and flow transmitters used in the Municipal and Industrial applications. It combines hybrid AC power protection and signal line protection in a NEMA 4X polycarbonate case. The AC power suppressor can supply up to 1875 Watts and has a 15 Amp replaceable fuse to prevent overloading of the protective elements. A "Power On" LED provides visual indication that power is applied to instruments. Signal line protection is accomplished by the variety of voltage clamps. Signal current can be monitored by reading the voltage across the 10 ohm 1% resistors (TP1 & TP2 or TP3 & TP4). All leads going to the board are terminated by quick disconnect connectors to facilitate easy removal for service or replacement.



Features:

- Lightning & Surge Suppression for AC Power & Low Voltage Signal Lines
- Series Hybrid AC Suppressor/Filter
- "Power On" Indicator
- Plug-In Protection Module
- 15 Amp Replaceable Fuse
- Test Jacks for Signal Line Monitoring
- Nema 4X Enclosure

Dimensions / Case:

- Nominal Outside Dimensions: H=7, W=7, D=3 (Inches)
- Knockouts for 1/2" and 3/4" hubs
- Bosses provided for #6 x 3/8" self-tapping screws
- Flammability Rating UL94-5V
- Base Molded in Light Grey Polycarbonate
- Cover Molded in Clear Polycarbonate
- Nema 4X Rating

Specifications AC:

- Clamping Cat.ANSI/IEEE C62.41 (IEEE 587)
- Technology..... 3 Stage Series Hybrid
- Input Voltage..... 120VAC 50/60 Hz
- Output Current..... 15 Amps. Max.
- Response Time..... < 5 Nanoseconds
- Max. Surge Current..... 10kA (8x20?s)
- Occurrences @ 500A..... >50

Specifications Signal Line:

- Technology.....3 Stage Series Hybrid
- Voltage Clamp..... 8 – 60 V.
- Series Resistance..... 5 ohms Typical
- Response Time.....< 5 Nanoseconds
- Max. Surge Current..... 10kA (8x20?s)