

# Edco SLAC Series

AC Power/Signal

■ Surge Protection  
For Business-Critical Continuity™

The Edco SLAC Series suppressor was specifically designed to protect electronic instruments used by the water/wastewater industries. 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 Edco PC642 Series available in a 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 Edco SLAC board are terminated by quick disconnect or barrier block connectors to facilitate easy removal for service or replacement.

## General Technical Specifications

| AC Power                                   |                                    |                         |
|--|------------------------------------|-------------------------|
| Technology                                 | Three-Stage Series Hybrid          |                         |
| Voltage Clamp                              | 325 VAC                            |                         |
| Input Voltage                              | 120 VAC 50/60 Hz                   |                         |
| Output Current                             | 15 Amps Max.                       |                         |
| Response Time                              | <5 Nanoseconds                     |                         |
| Maximum Surge Current (8x20 $\mu$ s)       | 39 kA                              |                         |
| Occurrences at 500 Amps                    | >50                                |                         |
| Parameter                                  | Normal Mode (L-N)                  | Common Mode (L-G) (N-G) |
| IEEE 587 CAT A Ring*                       | 172 V                              | 280 V                   |
| IEEE 587 CAT B Ring*                       | 205 V                              | 280 V                   |
| IEEE 587 CAT B Impulse*                    | 330 V                              | 360 V                   |
| *Measured from zero volts, 90° Phase angle |                                    |                         |
| Signal Line                                |                                    |                         |
| Technology                                 | Three-Stage Series Hybrid          |                         |
| Peak Surge Current (8x20 $\mu$ s)          | 10 kA                              |                         |
| Response Time                              | <5 Nanoseconds                     |                         |
| Voltage Clamp (customer selected)          | 8–200 Volts                        |                         |
| Series Resistance                          | 5 ohm (Typical)                    |                         |
| Certification                              | UL 1449 3rd Edition (2009), Type 2 |                         |

## Standard Enclosure

|   |                                       |
|---|---------------------------------------|
| NEMA-4X                                   | Corrosion Resistant                   |
| Polycarbonate Base                        | Resists Temperatures up to 250 deg. F |
| Smoked Grey Transparent Cover             | Flammability Rating UL94-5V           |
| Knockouts for 20mm and 32mm               | Nominal Outside Dimensions (inches):  |
| Bosses for 6-32 x 3/8 self-tapping screws | H=7.1, W=7.1, D=3.0                   |
| Maximum Protection-Total Insulation       |                                       |



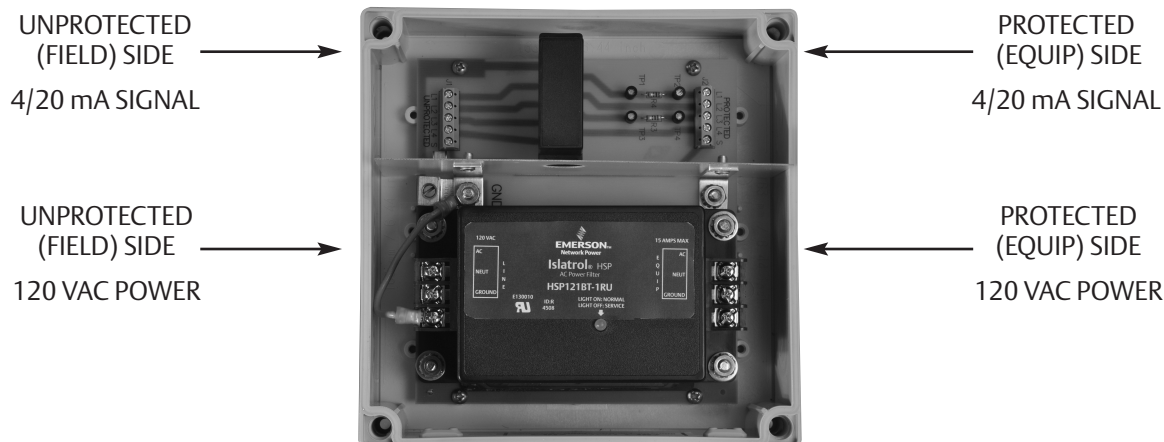
## Features

- Lightning and surge suppression for AC power and low-voltage signal lines
- Series hybrid AC suppressor/filter
- Plug-in protection module
- 15 Amp replaceable fuse
- Test jacks for signal line monitoring
- “Power ON” indicator
- Optional stainless steel or fiberglass enclosure
- 5 year warranty

## Optional Enclosure

|                                     |
|-------------------------------------|
| NEMA-4X                             |
| Stainless Steel or Fiberglass       |
| Continuous Hinge                    |
| Nominal Outside Dimensions (Inches) |
| H=10, W=8, D=4                      |





## Installation

### Signal Line Connections:

- Connect GND Terminal to Local Ground using #12 AWG wire minimum
- L1 and L2 – Connect for Signal Pair #1
- L3 and L4 – Connect for Signal Pair #2
- Terminals accept #24-#14 AWG wire, torque to 4kg-cm
- “S” Connection for Cable Shield ( If Applicable )

CAUTION: Do not place this product in service on any signal line capable of supplying more than 150 milliamperes continuously.

### AC Power Connections:

- Connect AC Power as Marked on Case using #12 AWG wire minimum
- Keep 120 VAC Power feed separate from Low Voltage 4/20 mA feed

## Ordering Information

\*For Standard Unit order part # SLAC-12036

SLAC — **1****2****3**

|          |   |     |                                |
|----------|---|-----|--------------------------------|
| <b>1</b> | = | 0   | No Enclosure                   |
|          |   | 1   | Polycarbonate Case (Standard)  |
|          |   | 2   | Stainless Steel (Optional)     |
|          |   | 3   | Fiberglass (Special)           |
| <b>2</b> | = | 0   | Without PC642 Signal Protector |
|          |   | 2   | With PC642                     |
| <b>3</b> | = | 008 | PC642 Voltage Clamp Selection  |
|          |   | 015 |                                |
|          |   | 030 |                                |
|          |   | 036 |                                |
|          |   | 050 |                                |
|          |   | 060 |                                |
|          |   | 200 |                                |

**Emerson Network Power.**  
The global leader in enabling  
*Business-Critical Continuity™*.

■ AC Power  
■ Connectivity  
■ DC Power

■ Embedded Computing  
■ Embedded Power  
■ Monitoring

■ Outside Plant  
■ Power Switching & Control  
■ Precision Cooling

■ Racks and Integrated Cabinets  
■ Services  
■ Surge Protection

### Emerson Network Power Contact information

**Headquarters**  
Surge Protection  
30 Charles Street  
Binghamton, NY 13905  
T: (607) 721-8840  
T: (800) 288-6169  
F: (607) 722-8713  
E: [contactsurge@emerson.com](mailto:contactsurge@emerson.com)

[www.emersonnetworkpower.com](http://www.emersonnetworkpower.com)

