

# Edco SLAC Series

AC Power/Signal

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 μs)	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 μs)	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

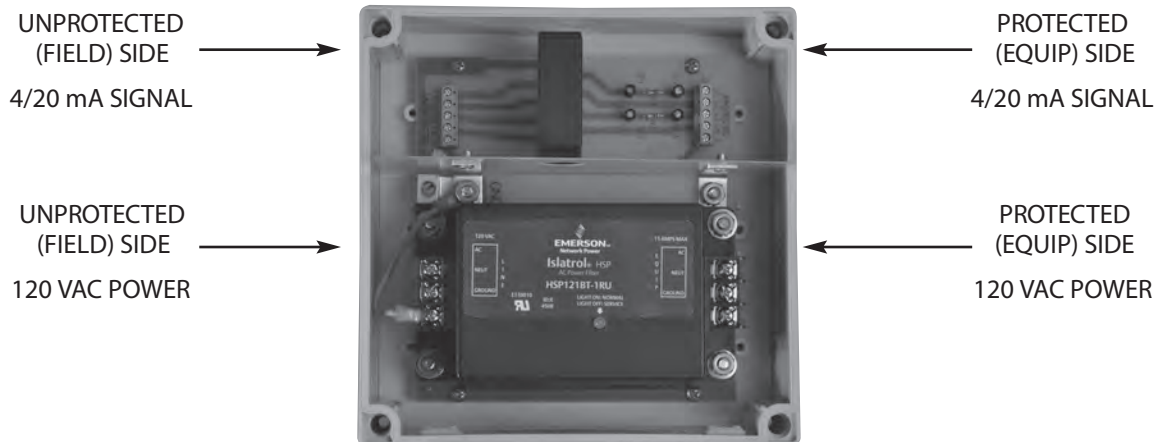
NEMA-4X	Corrosion Resistant
Polycarbonate Base	Resists Temperatures up to 250 deg. F
Smoked Grey Transparent Cover	Flammability Rating UL94-5V
Knockouts for 20mm and 32mm	Nominal Outside Dimensions (inches):
Bosses for 6-32 x 3/8 self-tapping screws	H=7.1, W=7.1, D=3.0
Maximum Protection-Total Insulation	

## 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

## Technical Support

Phone: 1.800.377-4384 or 1.847.268.6651

E-mail: [solahd.technicalservices@emerson.com](mailto:solahd.technicalservices@emerson.com)

Web site: [www.solahd.com](http://www.solahd.com)

## Ordering Information

\*For Standard Unit order part # SLAC-12036

SLAC — 123 LC

1	=	0	No Enclosure
		1	Polycarbonate Case (Standard)
		2	Stainless Steel (Optional)
2		3	Fiberglass (Special)
	=	0	Without PC642 Signal Protector
		2	With PC642
3	=	036	PC642 Voltage Clamp Selection
		043	