## **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

<sup>\*</sup>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		



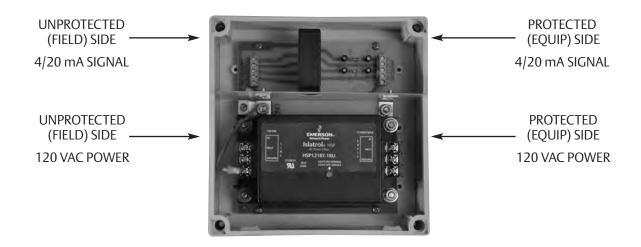
### **Features**

- 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 suppying 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 LC

1	=	0	No Enclosure	
		1	Polycarbonate Case (Standard)	
		2	Stainless Steel (Optional)	
		3	Fiberglass (Special)	
		_		

0 Without PC642 Signal Protector 2 With PC642

036 PC642 Voltage Clamp Selection 043

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