

The ST-CLW##A2PS is designed to protect highly sensitive current loop circuits, signal lines and/or low speed data lines feeding transducers, leak detectors, flow meters and a broad variety of similar sensory devices from damage due to surges. It also has a parallel connected protection circuit designed to protect power supplies or similar circuits.

This device is mounted using the threaded ends of the pipe housing or a capped end is optional. It is grounded through use of the green ground wire attached to the unit, as well as its housing. The unique design of these devices makes them among the most versatile SPD devices on the market with superior performance specs and a warranty that is second to none.

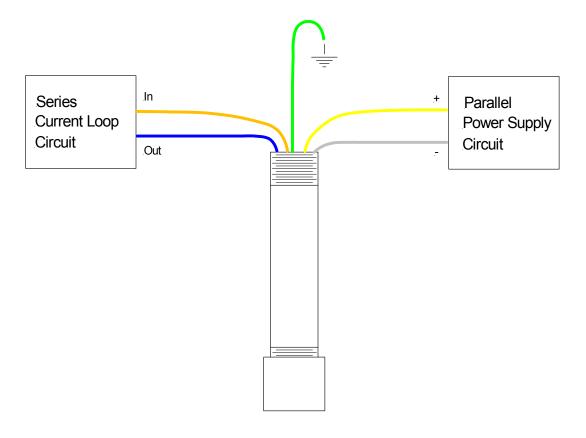
GENERAL	
Description:	Series wired transient voltage surge suppressor with O ptimal R esponse N etwork™ circuitry for protection of current loop circuits, signal lines and other low speed data circuits.
Application:	Designed for use with data collection and switching circuits to protect data transmission system equipment from damaging transients generated between terminals and equipment in the data collection/transmission system.
Warranty:	25 Years Unlimited Free Replacement
Unit Listing:	UL497B

MECHANICAL	
Enclosure:	316 stainless steel, with Cap (C suffix only)
Mounting:	1/2" NPT threaded housing.
Connection Method:	18 AWG tinned copper wire
Shipping Weight:	< 1 lbs

CIRCUITRY	
Circuit Design:	Series wired hybrid design incorporating discrete all mode protection and utilizing our encapsulated O ptimal R esponse N etwork [™] design to provide lowest possible let-through voltages. All suppression circuits are encapsulated in our high dielectric compound to assure long component life and complete protection from the environment and/or vibration.
Protection Modes:	Dedicated protection components and circuitry for each mode. Discrete L-L (Normal Mode) and L-G (Common Mode)

PERFORMANCE	
Maximum Continuous Operating Voltage:	7.5 thru 200 V (varies by model, See Table)
Maximum Continuous	
Operating Current:	500 mA (Current Loop)
Frequency Range:	DC to 20 MHz
Maximum Data Rate:	Up to 2 Mbps
Series Resistance:	5 Ohms per wire (10 Ohms per loop) Current loop, n/a on parallel circuit
Peak Surge Current per Pair:	L-L 10 kA, L-G 10 kA Current loop, 1.5 kW P-G,N-G Parallel circuit

Nominal System Operating Voltage (Vnom)	CLW##A2P-B Operating Voltage Model Number	Maximum Continuous Operating Voltage (MCOV)		B3/C1 Impulse Wave 6 kV, 3 kA	
		Voltage	Voltage	Voltage	Voltage
		(L-L)	(L-G)	(L-L)	(L-G)
0 > Vnom ≤ 6	ST-CLW5A2PS	± 15 Vpk	± 7.5 Vpk	< 40	< 20
6 > Vnom < 15	ST-CLW12A2PS	± 48 Vpk	± 24 Vpk	< 60	< 30
15 ≤ Vnom < 36	ST-CLW24A2PS	± 72 Vpk	± 36 Vpk	< 80	< 40
36 > Vnom < 54	ST-CLW48A2PS	± 124 Vpk	± 62 Vpk	< 160	< 80
54 > Vnom ≤ 140	ST-CLW140A2PS	± 400 Vpk	± 200 Vpk	< 400	< 200



Actual unit may vary from picture