

LEVEL PROBE SURGE ARRESTOR

TYPICAL APPLICATIONS

For use with MPE's level control devices that have conduction probe inputs for level measurement.

DESCRIPTION

The Level Probe Surge Arrestor provides transient surge protection for the control inputs of any of MPE's pump control devices that have conduction probe inputs for level measurement.

The unit has ten channels and may be used with any of MPE's ten electrode conduction probes (Level Probes), but can also be used with single electrode, or three electrode probes.

Each channel has an MOV (Metal-Oxide Varistor) that is capable of shunting large transient currents to ground (up to 1000 Amps).

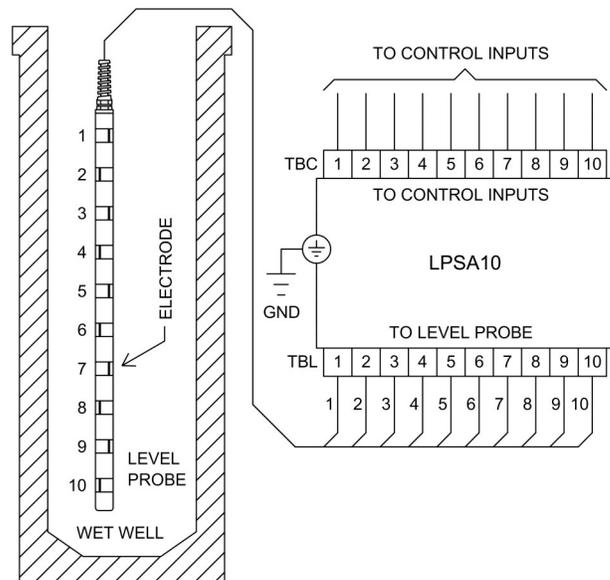
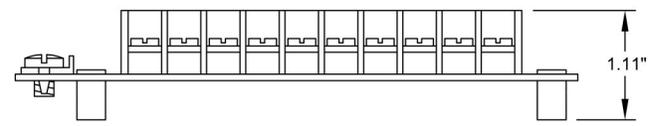
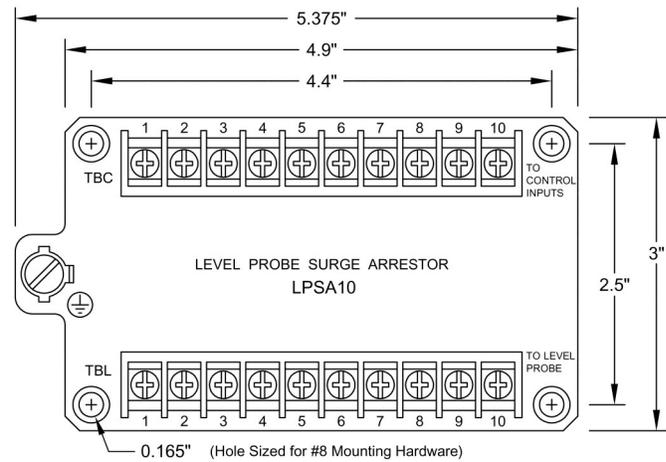
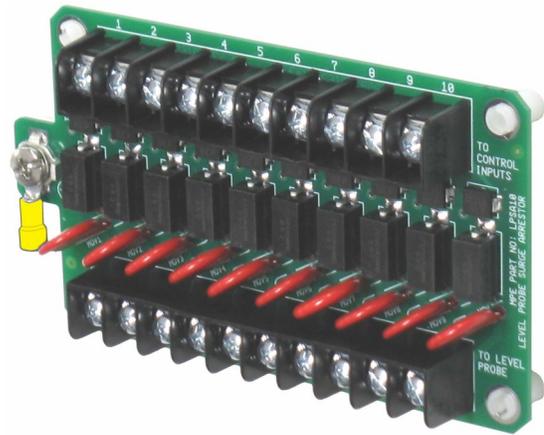
Following each MOV is a TVS (Transient Voltage Suppressor Diode) capable of limiting the voltage going to the controls inputs from going beyond $\pm 26V$.

Between each MOV and TVS is a 100Ω , 5Watt wirewound resistor that protects the TVS from excessive voltages and currents not stopped by the MOV.

The grounding terminal on the LPSA10 must be connected to the control panel ground by a 12AWG

SPECIFICATIONS

Rated Operating Voltage:	$\pm 12 V$
Maximum Operating Voltage:	$\pm 15 V$
Maximum Clamping Voltage:	$\pm 26 V$
Maximum Clamping Current:	$\pm 1000 A$
Internal Resistance:	100Ω (per sensor)
Operating Temp:	-20 to $+65 \text{ }^\circ\text{C}$
Storage Temp:	-45 to $+85 \text{ }^\circ\text{C}$



ORDERING INFORMATION

Part Number: **LPSA10**