

# Surge Protection SP2

# DATASHEET

Two-stage transient voltage protectors provide primary and secondary protection against lightning, switching, and electrostatic discharges. Provides protection on 4-20mA, sensor, and AC power in one convenient enclosure.

## Features

- Automatic Reset - will not interrupt service
- Nanosecond response time
- No maintenance required

## Specifications

- Operating Temperature: -40° to +85°C
- Enclosure: NEMA4 Steel

### 4-20mA Protector

Protek 420E236 - Maximum Ratings

- Operating Line Current: 100mA
- Transient Source Voltage: 6kV
- Transient Current (8/20µs): 5kA/Line

### Sensor Protector

Protek 422ELC - Maximum Ratings

- Operating Line Current: 200mA
- Transient Source Voltage: 20kV
- Transient Current (8/20µs): 10kA/Line

### AC Power Line Surge Suppressor

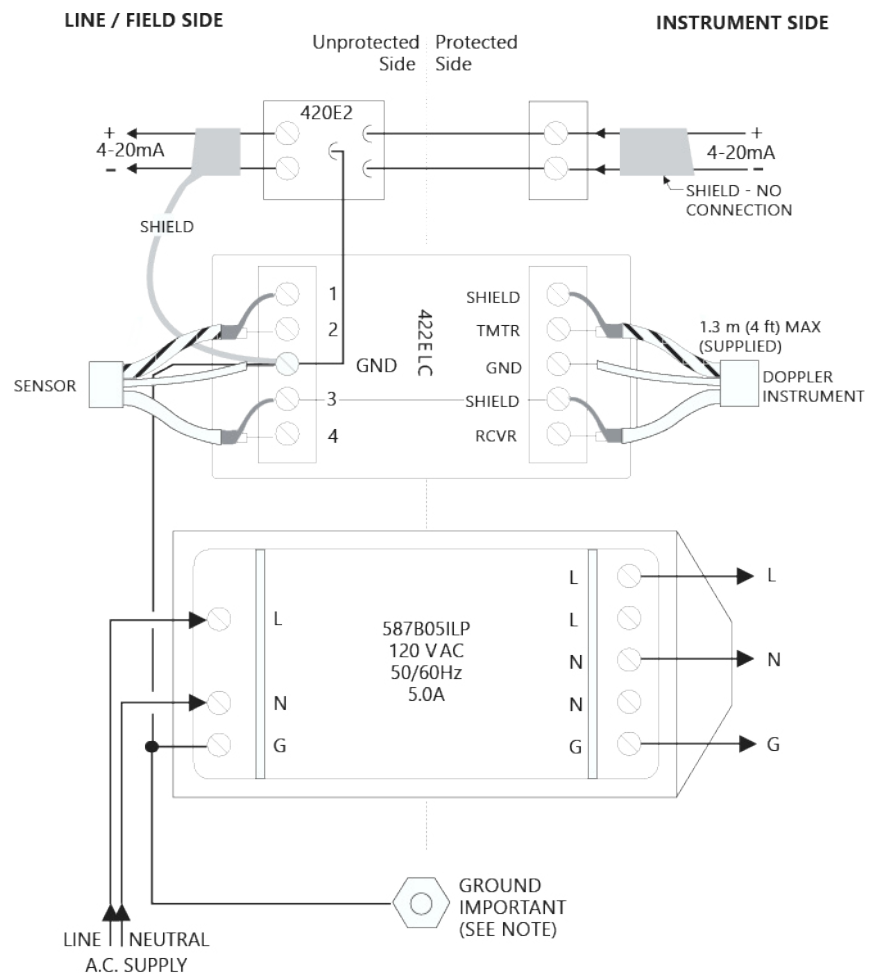
Protek 587B - Maximum Ratings:

- Line Voltage: 130 V AC
- Line Current: 5.0 A
- Transient Voltage: 6,000 V peak
- Transient Current: 3,000 A peak
- CSA/NRTL Certified

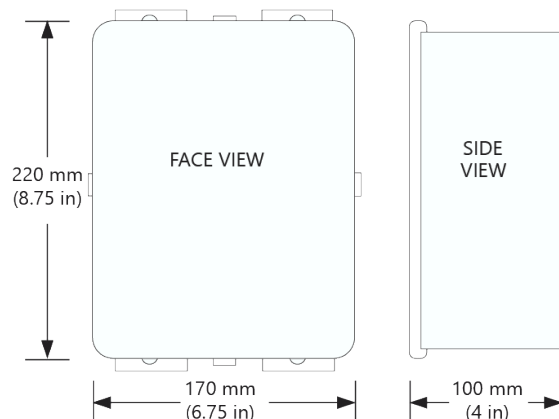
## Installation Notes

- Cables between the SP2 Surge Protector enclosure and the Pulsar meter electronics / controller should be as close as possible and should not exceed 4 ft. (1.3 m) length.
- Lightning contains a broad spectrum of frequencies up to 1 MHz. A low impedance path to earth ground is necessary. A ground strap or a #6 AWG stranded wire is recommended.
- Sensor connection for DFM / TTFM with 2ISB option should not be made to SP2. Connect directly to intrinsic safety barriers.
- Use Greenlee-type hole cutter to make conduit entries in enclosure.

## Connections



## Enclosure Dimensions



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