



# F&J Specialty Products, Inc.

The Nucleus of Quality Air Monitoring Programs

## ELECTRICAL SURGE PROTECTION FOR HV/LV AIR SAMPLING SYSTEMS P/N: FJ-SSI-02E-UK



Surges or power line transients are brief overvoltage spikes or disturbances on a power wave form which can damage, degrade or destroy electronic equipment and motors. Externally generated transients include utility grid switching, magnetic coupling and nearby or direct lightning strikes.

F&J SPECIALTY PRODUCTS, INC. (F&J) recommends the use of a “Surge Protective Device” (SPD) for digital air samplers utilized in high volume (HV)/low volume (LV) air sampling applications. F&J has commissioned a leading manufacturer of SPDs in the USA to design and develop a product that would protect air sampling instruments utilized in NPP HV/LV air sampling programs from the negative effects of power line surges.

Dimensions: 8”L × 8”W × 4.4”H (20.3 x 20.3 x 11.2 cm)

Weight: 5.8 lbs. (2.6 kg)

Receptacles: Two (2) 250VAC, 13A United Kingdom (UK) style grounding receptacles. This unit can be factory installed in the HV/LV air sampler at the time of fabrication or retro fitted to older air samplers with only minor changes.

Test Standard; IEEE Std C62.41.2<sup>TM</sup>–2002 and IEEE Std C62.62<sup>TM</sup>—2010

#### References:

- IEEE Std C62.41.1<sup>TM</sup>–2002—IEEE Guide on the Surge Environment in Low-Voltage (1000 V and less) AC Power Circuits
- IEEE Std C62.41.2<sup>TM</sup>–2002—IEEE Recommended Practice on Characterization of Surges in Low-Voltage (1000 V and less) AC Power Circuits
- IEEE Std C62.62–2010—IEEE Standard Test Specifications for Surge-Protective Devices (SPDs) for use on the Load Side of the Service Equipment in Low-Voltage (1000 V and less) AC Power Circuits

These are the standards that describe the surge environment and govern performance specifications of SPDs.

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