

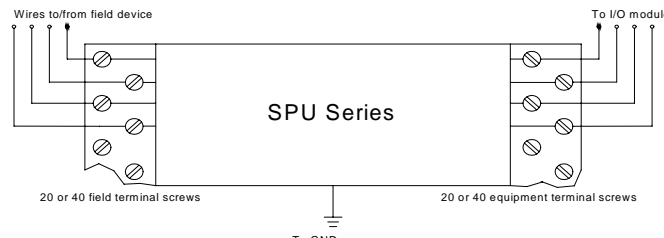
INSTALLATION INSTRUCTIONS

SPU SERIES

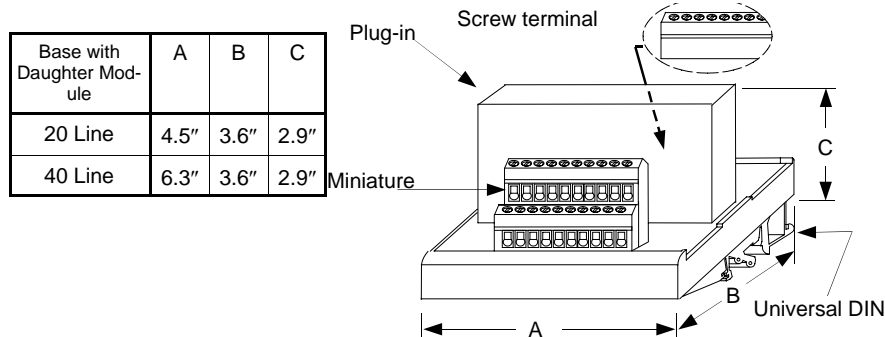
UNIVERSAL I/O Module
Signal/Data/Power

SURGE SUPPRESSOR
Multi-Line

Typical Installation:



OUTLINE DIMENSIONS: SPU-20LM or SPU-20RM & SPU-20CD24



WIRING INSTRUCTIONS:

CAUTION: Make sure equipment power is OFF before installing suppressor. Snap the rail mounted suppressor on any DIN rail. Mount suppressor as close to the equipment it is to protect as possible. Field wires are connected to the field miniature screw terminals on the SPU Suppressor unit. Connect the protected lines to the I/O equipment and dress away from the incoming lines. The suppressor must be connected to a good earth ground using a #12 AWG wire. Equipment ground and suppressor ground should be common.

NOTE 1 : For applications requiring use of SPU-XXCD120 or SPU-XXCD220, the suppressor contains no internal fuse and can fail short under direct lightning exposure: therefore, proper fusing is essential.

NOTE 2 : For applications requiring use of SPU-XXCD120 or SPU-XXCD220 always use the SPU 20LM or SPU-40LM base modules



ATTENTION: Installation and servicing should be done only by trained and qualified personnel. Intended for indoor use in locked communication closets which are accessible only to trained personnel. Intended for use on communication loop circuits which have been isolated from the Public Switch Telephone Network.

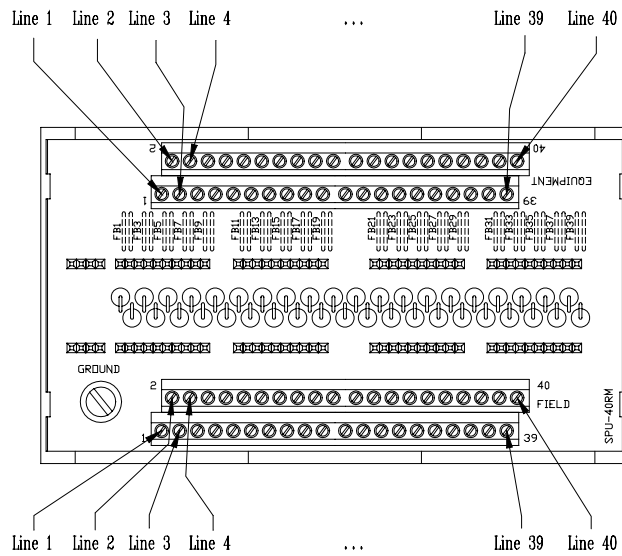
CAUTION: Make sure equipment power is OFF before installing suppressor.

- (A) Cut data lines at suppressor location. Be sure to leave enough slack line to facilitate stripping and insertion of lines into suppressor.
- (B) Remove 1/4" of insulation from each conductor wire.
- (C) Tin the end of each exposed wire with solder.
- (D) Insert the tinned wires into SPU terminal block and tighten retaining screws. Be sure to match input (field side) wire terminal number to output (equipment side) wire terminal number. The even numbered terminals are located in the taller (inside) terminal strip, while the odd numbered terminals are located on the shorter (outside) terminal strip. See Note 3 and drawings on page 2
- (E) Keep ground wire (#12 AWG or larger) as short as possible. Equipment and suppressor ground should be common.
- (F) Restore power to ON.

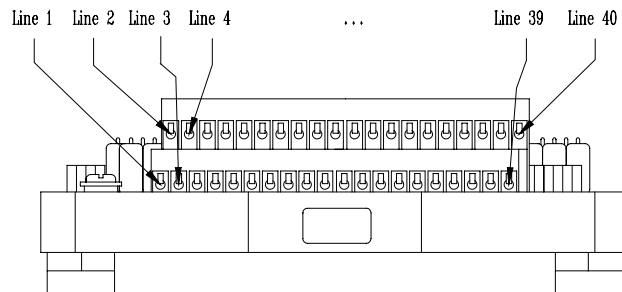
Note 3: For any one of the base modules each line is an independent path through the suppressor. For wire pairs, it is up to the end user how to connect all + and - wires. One option is to connect all + wires to odd numbered terminals and all - wires to the even numbered terminals. Another option is to connect Pair 1 + to Line 1 and Pair 1 - to Line 3, Pair 2 + to Line 2 and Pair 2 - to Line 4, and so on. However EACH WIRE MUST BE CONNECTED TO THE SAME NUMBERED TERMINAL ON THE EQUIPMENT SIDE AS ON THE FIELD SIDE.

Shown below is a 40 line base module without the daughter (suppressor) module.

EQUIPMENT / OUT - To Protected Equipment



FIELD / IN - From Unprotected Lines



FIELD / IN - From Unprotected Lines

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