

DAQ ELECTRONICS INC.

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DESCRIPTION/INSTALLATION SHEET

for

1056LP LINE ISOLATION UNIT

DESCRIPTION.

The P/N 1056LP Line Isolation Unit is intended to protect electronic equipment, such as audio tone channels, which are connected to leased telephone lines and other communication circuits, from low level line surges. It is intended to be used in conjunction with a surge protector, such as the DAQ 1057LP unit, for full protection of the connected equipment from line interferences.

The 1056LP contains an isolation transformer with an insulation level of 1250 volts to remove common mode signals and to preserve the balance of the line. The transformer is equipped with electrostatic shielding between windings to further reduce coupling of transient voltages into the equipment.

The equipment side of the transformer is shunted by zener diodes which limit any residual spikes due to unbalance to approx. 7 v.

The unit may be used in lines of 600 to 1200 ohms nominal impedance, and will pass all frequencies between 200 and 25,000 Hz. with a loss not exceeding 1 db.

The 1056LP unit is contained in an hermetic enclosure whose dimensions are approximately 1" by 2" by 3". Terminals are brought out through a 9-pin header for solder connections.

The 1056LP Line Isolation Unit is not designed to intercept lightning-induced voltages, and should be connected downstream of a surge protector, or lightning arrestor, such as the DAQ P/N 1057LP, or the carbon block arrestors of the type usually installed by the telephone company.

INSTALLATION.

The 1056LP unit should be installed adjacent to the surge protector, preferably at a point near where the telephone line enters the building. If placed in the equipment cabinet, it is recommended that the protection equipment be placed on the rear panel of the cabinet, as far from the tone equipment as is practicable.

Refer to Drawing No. 10782 for mechanical details, and Drawing No. 10192 for a wiring diagram for the complete line protection group (both 1056LP and 1057LP).