

# LINESHIELD

## LS-108 Remote Unit



- The LINESHIELD LS-108 is a telephone line sharing switch with call authentication and logging capability. It is typically located at utility substations and connects between the phone line and up to eight (up to 16 for the LS-116) dial-up devices such as SCADA equipment, IEDs and meters. The LS-108 handles both incoming and outgoing calls and can be installed into existing dial up circuits with few changes to the existing dial up parameters.

- To allow for seamless transition from legacy line sharing switches to the LINESHIELD switches, incoming call DTMF routing to a particular device port is still possible when the authentication feature is off. After a certain comfort level has been established while operating in the legacy mode,

authentication can then be turned on either remotely via CAS or locally.

- The LS-108 logs all call activity, whether authenticated or not, including time / date, identity of calling Unit and duration of call.
- LS-108's are factory configured with a serial number, customer ID.
- Each LS-108 contains a list of access codes of other LINESHIELD Units that are authorized to call in. An incoming authenticated call through a LINESHIELD Unit can succeed only if the receiving LINESHIELD Unit has the originating LINESHIELD Unit access code in its configuration memory.
- In systems with a Central Administration System computer (CAS), CAS generates and assigns all access codes to all of the LINESHIELD Units (Host, Remote and Portable versions). These access codes are maintained by CAS and are not accessible to the user. CAS also manages LINESHIELD Unit configurations and call activity data downloads.
- For smaller systems without a CAS controlled system, LS-108 configuration changes and call activity data downloads are done locally on each Unit.
- Device port security can be enabled / disabled on a port by port basis.
- LS-108 Remote Units function independently of one another and operate with or without CAS.
- The LS-108 has the same functionality as the LS-101 Host Unit and can in fact be used in place of the LS-101.

### SPECIFICATIONS

#### Power:

Standard: 20 - 160 VDC,  $\leq 7W$  idle,  $\leq 15W$  max

Optional: 10 - 160 VDC ...

#### Aux & Fuse Alarm Outputs:

1 Fuse alarm output form A / B jumper selectable

2 Aux outputs form A / B jumper selectable

#### Phone Line & Device Ports:

1 phone line jack, 8 device jacks

#### Environment

Standard: 32 to 120 °F (0 to 50 °C), 0 - 95% non condensing rel. humidity

Optional: -40 to 120 °F (-40 to 50 °C) ...

#### Certification

Meets USA / Canada interconnect and power line cross standards

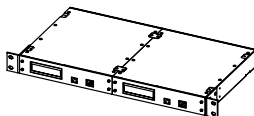
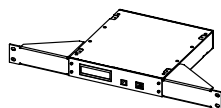
Substation hardened - meets IEEE1613 standards

#### Physical

Mounting: Single or double (side by side) rack mount (1 RU), wall mount.

Dimensions: 8-3/8"W x 1-3/4"H x 9-1/2"D (21.3cm x 4.5cm x 24.1cm)

Shipping weight: 4 lbs. (1.8 Kg.)



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