

Description

The Fiber-Optic Line Driver module (FLD-1) provides fiber-optic cable communications between the system modules. The FLD-1 Module is the interface that communicates with laptops, LCD-7100 Module displays, and remote printers. This module affords a greater reliability and is a more robust application for those installations that require a communications link between several buildings within a large facility complex.

The FLD-1 connects to the RS-232 and RS-485 ports of the Gamewell-FCI, 7100 Series fire alarm control panel. It converts either an RS-232 or RS-485 signal to a powerful optical signal that can tolerate a signal loss of up to 10 dB. It uses half-duplex data flow, an asynchronous protocol, and runs at speeds of up to 19.2 KBps for RS-232 and 128 KBps for RS-485 communications.

The FLD-1 is equipped with ST connectors that will support standard fiber-optic cable up to 200 microns (multi-mode). Optimal results can be achieved with 62.5/125 micron cable.

The FLD-1 provides the following two modes of operation:

- the Remote Mode
- the Point-to-Point Mode, selectable through DIP Switch settings on board the FLD-1

Remote Mode

Using the Remote Mode, the following configuration is possible:

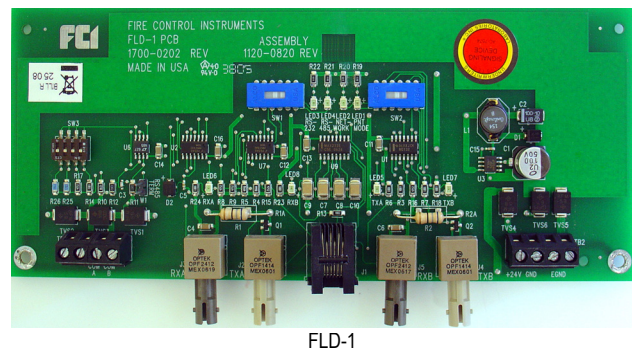
- The RS-485 communication output of the Gamewell-FCI 7100 Series control panel can be converted to an optical link and brought to as many as five (5) remotely located LCD-7100 alphanumeric displays or LDM-7100 remote annunciator drivers. Each location requires a FLD-1 module.

Point-to-Point Mode

When the FLD-1 is configured in the Point-to-Point Mode, a single 7100 Series control panel may use its RS-232 port to connect to a single printer, video terminal or personal computer (PC) via a fiber-optic link. Each location requires a FLD-1 module.

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Fiber-Optic Line Driver Module

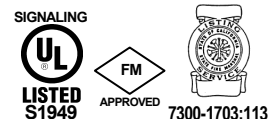


FLD-1

Features

- Provides a fiber-optic connection between the 7100 Series, fire alarm control panel and multiple annunciators for up to 1 mile (1.75 km) in distance
- Allows a fiber-optic cable link between a personal computer (PC), printer or video terminal connected over long distances to a 7100 Series fire alarm control system
- Converts either an RS-232 or RS-485 signal to a powerful optical signal that can tolerate up to 10 dB signal loss between each FLD-1 module
- Fiber-optic cable offers a high immunity from interference, transients and voltage spikes
- Automatically adjusts between the RS-232 and/or RS-484 baud rates
- Uses industry standard ST connectors

An ISO 9001-2000 Company



GAMEWELL-FCI

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Installation

The FLD-1 Module mounts inside its own steel cabinet, which can be located from up to 15 feet (4.6 meters) in distance, using rigid conduit. The dimensions of the cabinet are 10 1/4" W x 10" H x 3" D (26.04 x 25.40 x 7.62 cm).

Operating power for the FLD-1 Module is obtained from the 7100 Series panel, and is connected to the FLD-1 via a terminal block. RS-485 connections are also made via a terminal block. The RS-232 connections are made using a standard RJ-11 cable.

For additional information on the FLD-1 installation, refer to the FLD-1 Installation Instructions, P/N 9000-0513.

Specifications

| | |
|-------------------------------|-------------------------------------------------------------------------------|
| Operating Voltage: | 24 VDC (nominal) @ 0.045 amp (all modes) |
| Operating Temperature: | 32° to 120° F (0° to 49° C) |
| Relative Humidity: | 0 to 85% (non-condensing) |
| Protocol: | Asynchronous with half-duplex data flow |
| Speed: | RS-232 up to 64 KBps RS-485 up to 128 KBps |
| ST Connectors: | Up to 200 microns (multi-mode), optimized for 62.5/125 microns |
| LEDs | Each FLD-1 has seven (7) green LEDs functioning as activity indicators. |
| Dimensions: | 10 1/4" W x 10" H x 3" D (26.04 x 25.40 x 7.62 cm) |

Ordering Information

| Part Number | Description |
|--------------------|-------------------------------------------------------|
| 1100-0429 | Fiber-optic line driver module (FLD-1) with a backbox |