



## PD Sentry, PD-101 Event and Alarm Relay

PD 101 is used for relaying alarms and other events between security domains.

PD 101 enables communication from a network with higher information security classification to a system with a lower security classification.

Only preconfigured event codes are transferred.

### West Code Solutions Event and Alarm relayer provides the following advantages

- One-way communication between two security domains. For example, from a network of a higher information security classification to a network of a lower information security classification.
- The relayer consists of two separate parts divided by a built-in optical diode link. Unidirectional properties in hardware design ensure unidirectional communication regardless of software.
- Only approved events are accepted.
- All data is identified on the receiving side and new messages are generated on the transmitting side. Only preconfigured codes are transferred from the transmitting network to the receiving network, PD 101 shields sensitive information in the transmitting network from the receiving network.
- No operating system is used – processing is done on basic hardware to minimize the attack vectors and enable a high security level.
- PD 101 can also be used with Fibersystem Data Diode as a highly controlled back channel for data reception acknowledgement.

**Function**

The alarm and event relayer is built to receive alarms from isolated networks and to forward them to another network of a lower information security classification where monitoring is being performed.

No compromising data is transferred between the domains, instead preconfigured codes are transferred. The transmitting side uses a diode to pass the preconfigured code to the receiving side. When the code is received on the receiving side, the code is compared to established codes in a table and then the alarm is forwarded to a monitoring system.

Each side has its own configuration and the only thing that needs to be duplicated on both sides are the preconfigured codes.

Protocol conversion is possible, for example, an SNMPv1 alarm on the transmitting side may appear as a SNMPv2 alarm on the receiving side. Since the alarms and events from the transmitting side can be changed, IP addresses and other sensitive information from the transmitting side can be hidden from the receiving side.

**Accessories**

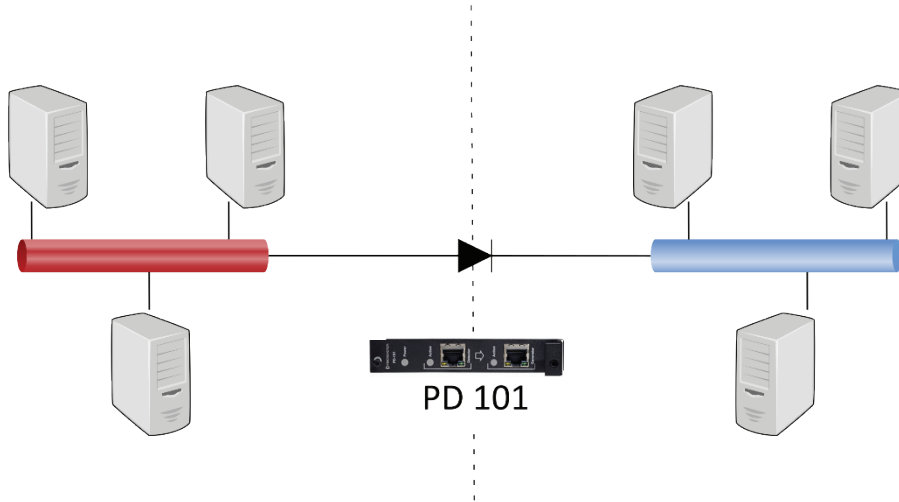
- Fibersystem Single Slot Unit
  - Single Slot Unit for Fibersystem rack modules
  - Built in Power Supply



- Fibersystem 19" Rack System
  - Redundant Power Supplies
  - 16 rack slots
  - 3 HU
  - Physical size: 133 (H), 38 (W), 280 (D) mm, 5.2 (H), 1.5 (W), 11.0 (D) inch, weight: 1.28 kg, 2.83 lbs
  - Hot swap of power and card modules
  - Optional SNMP and Web 2.0 management system

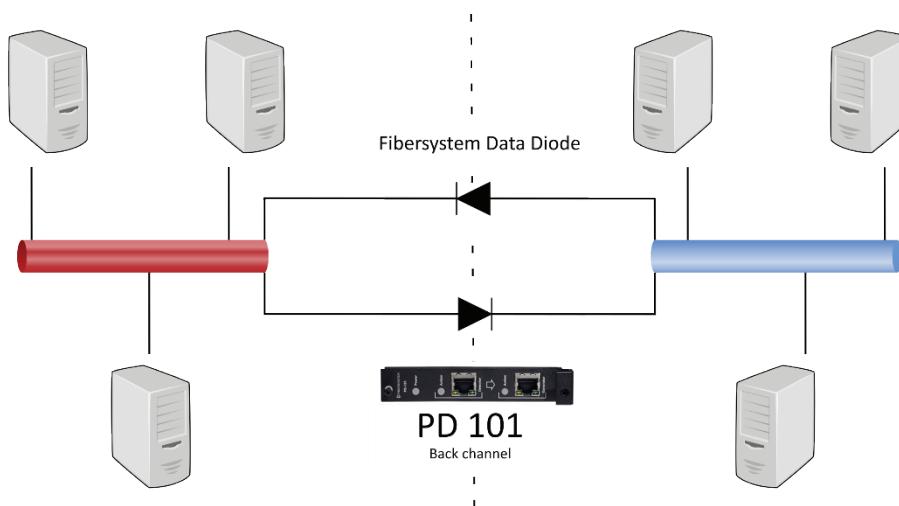
## PD 101 used as a relay for alarms and other events

Computer network for a high information security class      Computer network for a lower information security class



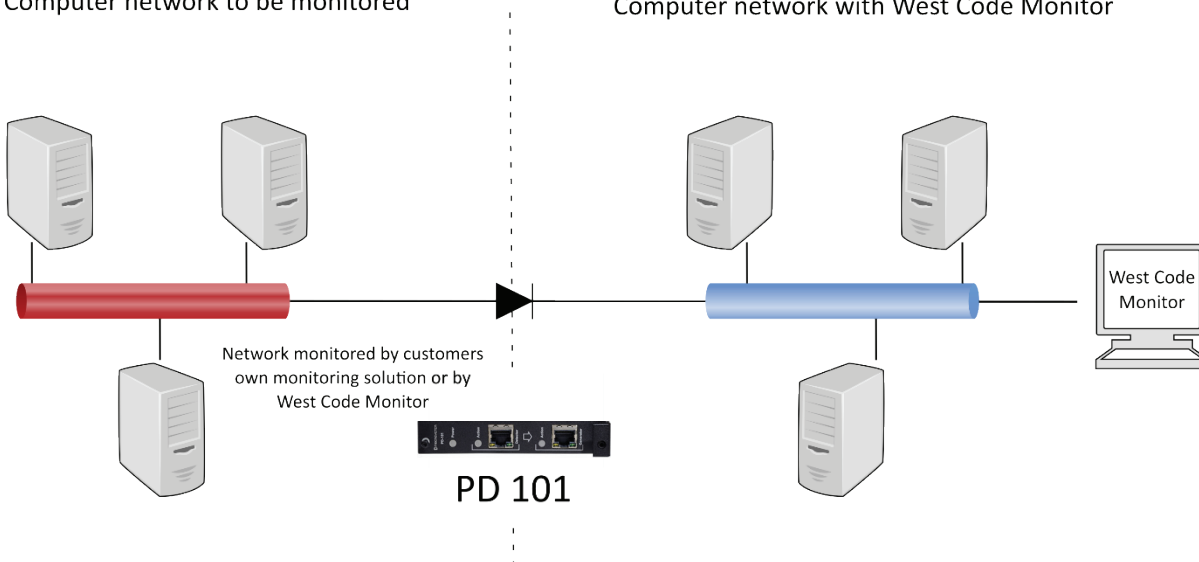
## PD 101 used as a data reception acknowledgement with Fibersystem Data Diode

Computer network for a high information security class      Computer network for a lower information security class



## PD 101 used for monitoring events with West Code Solutions software – West Code Monitor

Computer network to be monitored      Computer network with West Code Monitor





### Military applications

When alarms from a military command and control system need to be transmitted to a command and control system of a lower information security classification.



### Computer operations

When operational monitoring of a computer network of a high information security classification is being performed from a network of a lower information security classification.



### Computer security

When security monitoring of a computer network of a high information security classification is being performed from a network of a lower information security classification.



### Physical security

When security monitoring such as intrusion detection, access control and video surveillance of objects and areas in a network of a high information security classification is being performed from a network of a lower information security classification.

E.g. in the case of intrusion prevention when a video surveillance camera has to be placed in a location where it can be compromised.



### Industrial

When an environmental alarm or event needs to be transmitted from an isolated network to an open network.

## Technical Data

### Technical Data PD-101 Event and Alarm Relay

#### Connections

Connections RJ45x2

#### Power supply

Power consumption 7W

#### Environment

Temperature range Operating, +10 till +40 C. Storage, 0 till +70 C

Relative humidity Operating, to 95%. Storage, 5 % to 95% - non condensing

#### Dimensions and Weight

Size 115 (H), 20 (W), 195 (D) mm. 4.5 (H), 0.8 (W), 7.7 (D) inch

Weight 0.15kg/0.33lbs

#### Standards

RFC 1157 SNMP v1

RFC 3416 SNMP v2

## West Code Solutions Alarm/Event relay/er

- Designed to be used in Fibersystem Single Slot Unit
- Up to 16 PD 101 can be fitted in to Fibersystem 19" Rack System



## Fibersystem Single Slot Unit

- Single Slot Unit for Fibersystem Cards
- Built in Power Supply

For more information please see separate datasheet at [www.fibersystem.com](http://www.fibersystem.com).



## Fibersystem 19" Rack System

- Redundant Power Supplies
- 16 rack slots
- 3 HU 133(H), 38(W), 280(D) mm  
5.2 (H), 1.5 (W), 11.0 (D) inch  
weight: 1.28 kg, 2.83 lbs
- Hot swap of power and card modules



## Options

- QNX RealTime OS version 6.5.0
- HTTP-based (Web-browser) interface for configuraton/administration
- RTC (real time clock) support
- NTP (NetworkTimeProtocol) support
- SNMPv2 (SNMPv1 compatible) and Web 2.0 (json)
- Interface for access of sensor data
- Logging
- Syslog
  - Card module slot state (Unoccupied/Occupied/Power error)

For more information please see separate datasheet at [www.fibersystem.com](http://www.fibersystem.com).

# Ordering information

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Partnumber	Model	M-Number	Description
60-00-6924	PD 101	M3199-901010	PD Sentry, PD 101 - Event and Alarm Relay
60-00-6406	50-502	F3785-000080	Single slot unit with built in 15W power 85- 264 VAC
60-00-7231	50-502	M3196-993219	Single slot unit with built in 15W power 9-36VDC
60-00-6918	50-502	M3196-001800	Rack 19" 3HU with 2x150W redundant powersupplies,16 rack slots, w/ SNMP
60-00-6944	50-502	M3196-992819	Rack 19" 3HU with 2x150W redundant powersupplies,16 rack slots, w/o SNMP
60-00-6505	50-502	F3785-00084	Rack shelf 19" 1HU, 3 rack slots