

- Features
- Compatible with all Radionics Fire Alarm Panels
- UL-listed for NFPA 72 Remote Station applications
- Ten-second alarm activation delay
- System test mode with LED indicator
- Adjustable alarm and supervisory output current

Description

The D185 Reverse Polarity Module sends a steady signal over one or two pairs of leased telephone company (Telco) lines to a monitoring station. It responds to trigger inputs from a Control/Communicator by changing the steady signal.

If a single pair of Telco lines is connected, the module signals an alarm condition by reversing the polarity of the Telco output. It responds to a trouble condition by interrupting the current of the Telco output.

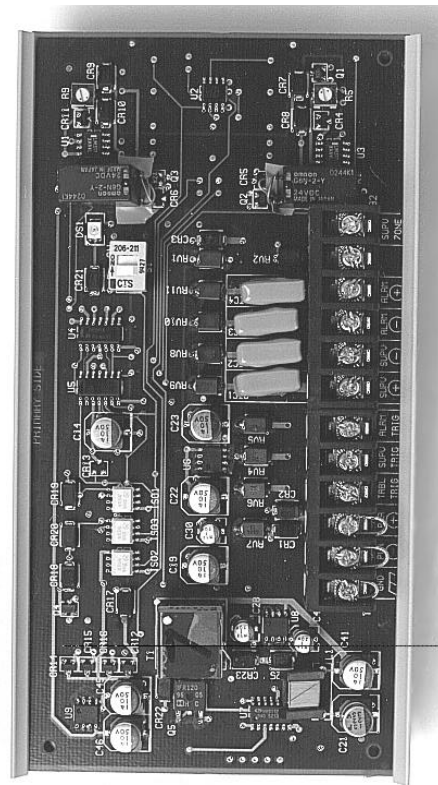
If the module receives an alarm trigger when it is in a trouble condition (current interrupted), it restores current and reverses polarity. There is a built-in ten second (plus or minus 25%) delay of alarm output

If a second pair of Telco lines is connected, the module signals a supervisory condition by reversing the polarity of the Supervisory Output.

The module has a switch-activated test mode that indicates an "off normal" condition at the control panel and a trouble condition at the monitoring station. The test mode is annunciated on the module board by an LED.

The current received at the monitoring station is adjusted by signal adjusters on the module board, one for the Alarm/Trouble Output and one for the Supervisory Output.

Standard "Snap-Track" installation simplifies mounting the D185 in existing systems.



Application

The D185 Reverse Polarity Module is a NFPA 72 Remote Station device. It communicates system conditions (alarm, trouble and supervisory) from a Control/Communicator to a monitoring station by reversing or interrupting the polarity of a steady signal it sends over leased telephone company (Telco) lines. It can operate over one or two pairs of lines.

Installation

Install, test, and maintain these devices according to the Installation Instructions, NFPA 72, Local Codes, and the Authority Having Jurisdiction. Failure to follow these procedures may result in failure of the device to communicate an alarm condition. Radionics is not responsible for devices that are improperly installed, tested, or maintained.

Specifications

Power Input (For Standby Battery Calculation)

	12 V	24 V
Start up Voltage	11.0 V	
Minimum Voltage	10.2 V	
Maximum Voltage		30 V
Idle Current Draw	245 mA	120 mA
Alarm Current Draw	300 mA	143 mA

Trigger Inputs

	ALARM	MIN.	MAX.
Voltage		10.2 V	30 V
Current		2.25 mA	8.1 mA

Alarm activation delay = 20 sec \pm 25%

SUPERVISORY

Voltage	10.2 V	30 V
Current	2.25 mA	8.1 mA

TROUBLE

Voltage	10.2 V	30 V
Current	2.25 mA	8.1 mA

Telco Output Current Adjustment Range

	MIN.	MA
Current	1.8 mA	16 mA

Dimensions

Width 5-7/8"

Height 3"

Listings and Approvals

- Underwriters Laboratories
- NYC-MEA (submitted)
- FM (submitted)
- CSFM (submitted)

Ordering Information

Model	Description
D185	Reverse Polarity Module