

Flood Detection System™



PROTRAN
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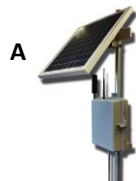
A Harsco Rail Company



PRODUCT INFORMATION BULLETIN

DESCRIPTION

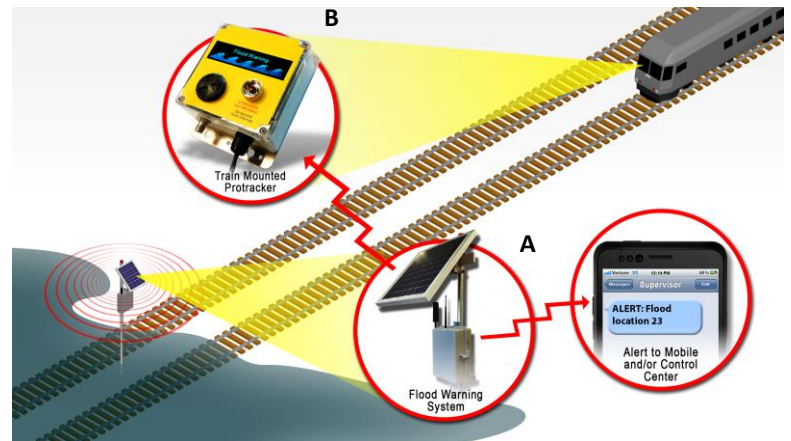
The Flood Detection System is placed in an area where flooding may occur. When a flood occurs, this device will detect the presence of water and begin to transmit both a cellular and RF signal that will be received by levels superpulse, the control center, and any train in the area using a protracker. When this signal is received by the Train Mounted Unit the train operator will receive a real time visual and audible flood warning alert, indicating that the train is entering a dangerous area. The system is also connected to a network through the cellular modem and sends an alert directly to the Control Center of the appropriate supervisor.



Solar Panel PT-0020



Train Device (TD) PT-0201
placed in operator's cab
Interfaces:
Ethernet, RS232, RS485, RS422,
TTL, SPI



FEATURES AND OPTIONS

- Nominal 12V DC for standard output.
- Solar powered
- Rugged design to withstand high wind pressure, hail and snow load.
- High/low sensor
- Voice message (optional)
- Communicates in real time with trains in the immediate area (optional)

OPERATIONS

Refer to the Protran Technology Operation Manual.



PART NUMBERS FOR ORDERING

Item	Part Number
Solar Panel (sizes vary; hardware included)	PT-0020
Train Device (TD)	PT-0201

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DOCUMENT DATE 10/13/15

P.O. Box 417, Newton, NJ 07860
Phone 973-250-4176
www.protrantechology.com

LIMITED WARRANTY STATEMENT

Protran warrants its products, if properly used and installed, will be free from defects in material and workmanship for a period of 1 year after date of purchase. Said warranty to include **ONLY** the repair or replacement of defective equipment. This warranty does not cover damage due to external causes, including accident, problems with electrical power, and usage not in accordance with product instructions, misuse, neglect, alteration, repair, improper installation, or improper testing. This limited warranty, and any implied warranties that may exist under state law, apply only to the original purchaser of the equipment, and last only for as long as such purchaser continues to own and properly maintain the equipment. Product instructions accompany product shipment. If product instruction required please contact Protran Technology.

This warranty replaces all other warranties, express or implied including, but not limited to, the implied warranties or merchantability and fitness for a particular purpose. Protran Technology makes no express warranties beyond those stated here. Protran Technology disclaims without limitation, implied warranties of merchantability and fitness for a particular purpose. Some jurisdictions do not allow the exclusion of implied warranties so this limitation may not apply to you.

To obtain warranty service, contact Protran Technology for a return material authorization. When returning equipment to Protran Technology, the customer assumes the risk of damage or loss during shipping and is responsible for the shipping costs incurred.

Protran Technology recommends that their equipment be maintained and tested per any CFR, OSHA, NFPA, IEEE, APTA or any other standards for maintenance and testing that may apply.

Protran offers testing, maintenance and training services under our Service and Maintenance contracts to our customers.

The Protran Technology, Harsco Rail equipment pictured in this brochure is intended to illustrate the general appearance and features of this product. It is equipped as specified by a particular customer and may or may not show items that are optional or recommended by Protran Technology, HARSCO RAIL.

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