

PROTRAN
TECHNOLOGY

A Harsco Rail Company

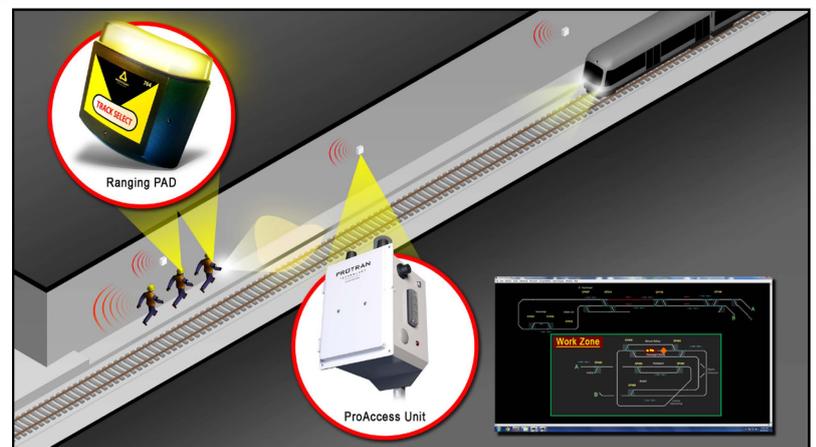


PROACCESS

Roadway Worker Protection and Location Awareness System

System Features:

- Utilizes Protran-developed proprietary software to provide enhanced RWP & location awareness in real-time
- Track specific train detection alerts sent to workers on the ROW
- User friendly - no tagging in required
- GPS combined with ranging radio technology to pinpoint location
- Meets NTSB -R-08-04



PROACCESS

Triangulation-Based Location Awareness System



Wayside Unit PT-0309

Mounted along wayside
7.2" x 12.6" x 10.0"
(18.3 cm x 32.0 cm x 25.4 cm)
8.5 lbs (3.83 Kg)

Unit comes with batteries for emergency backup power

Parameter	Value
Voltage Supply	Wayside power: 110V - 240V AC Input AC/DC Transformer / Charger supplied
Fuse Protected	1 Amp
Transceiver Frequency	Spread spectrum
Enclosure	Polycarbonate/IP66
Operating Temperature	-40C to +85C
Inputs/Outputs:	Train detector input (optional), USB connector for downloading logs and system updates



Wayside Unit PT-0310

Mounted at stations
7.2" x 12.6" x 10.0"
(18.3 cm x 32.0 cm x 25.4 cm)
8.7 lbs (3.95 kg)

Unit comes with batteries for emergency backup power

Parameter	Value
Network Access	Via RJ45 Connector
Inputs/Outputs	Same as PT-0309 with additional RJ45 connector
Transmit Frequency	Spread spectrum



Personal Alert Device (PAD) PT-0705

Worn on the worker's arm or vest
3.8" x 3.2" x 1.9"
(9.7 cm x 8.1 cm x 4.8 cm)
0.5lbs (227g)

Parameter	Value
Keypad	Durable sealed membrane
Enclosure	ABS Plastic - with IP54
Power Requirements	Rechargeable, custom charger

Description:

The function of the ProAccess Advanced Warning System is to provide a secondary warning system to mitigate rail vehicle/wayside worker accidents. A visual alert is provided via the Wayside ProAccess Alert System (PT-0309 and PT-0310) for operators of Class I and Class II vehicles.

A visual and audible alert is sent to roadway workers via a Personal Alert Device (PAD) PT-0705. The PT-0705 alert is activated when a train passes a wayside train detector sensor, installed on the PT-0309 or PT-0310 unit, warning the PAD wearer of an approaching vehicle to their location.

In addition to giving an advanced warning, the ProAccess system can also track worker entry/exit time & location, and worker movement along the roadway. Using PT-0310 boxes this information can be transmitted to the agency in real time using an existing network via Cat 6 cable.

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1960 Old Cuthbert Road,
Cherry Hill, NJ 08034

www.protrantechology.com

856-779-7795