CABLE PROTECTION SYSTEM

The Drallim Cable Protection System enables cable network operators to continuously monitor the integrity of their systems. Alarms are sent directly to users, who can then alert the Police.

Each system is based around a central Control Station, which communicates locally with transponders in the cable network, and remotely to a central server and directly to users.

Transponders are connected along the cable network and reply to the Control Station when polled. Some Transponders can be configured with tilt switches or reed switches to detect sensor movement or door opening. It may be possible to implement other sensor technologies to suit your specific requirements.

The Drallim Cable Protection System is designed to alert a user to unauthorized access to the cable network, such as at a telecommunications site or on a railway network. Cable breaks can be detected when caused by contractor cutting through a cable, a thief stealing copper, or even wildlife damaging the infrastructure.

The Control Station polls each transponder in under 100 ms, prioritising those on the periphery of the network, enabling a modest sized network to be scanned within seconds, and polling is continuous unless a break or other alert is detected.

An alarm is generated within seconds, and a message can be sent to a user within 2 minutes (subject to wireless network conditions).
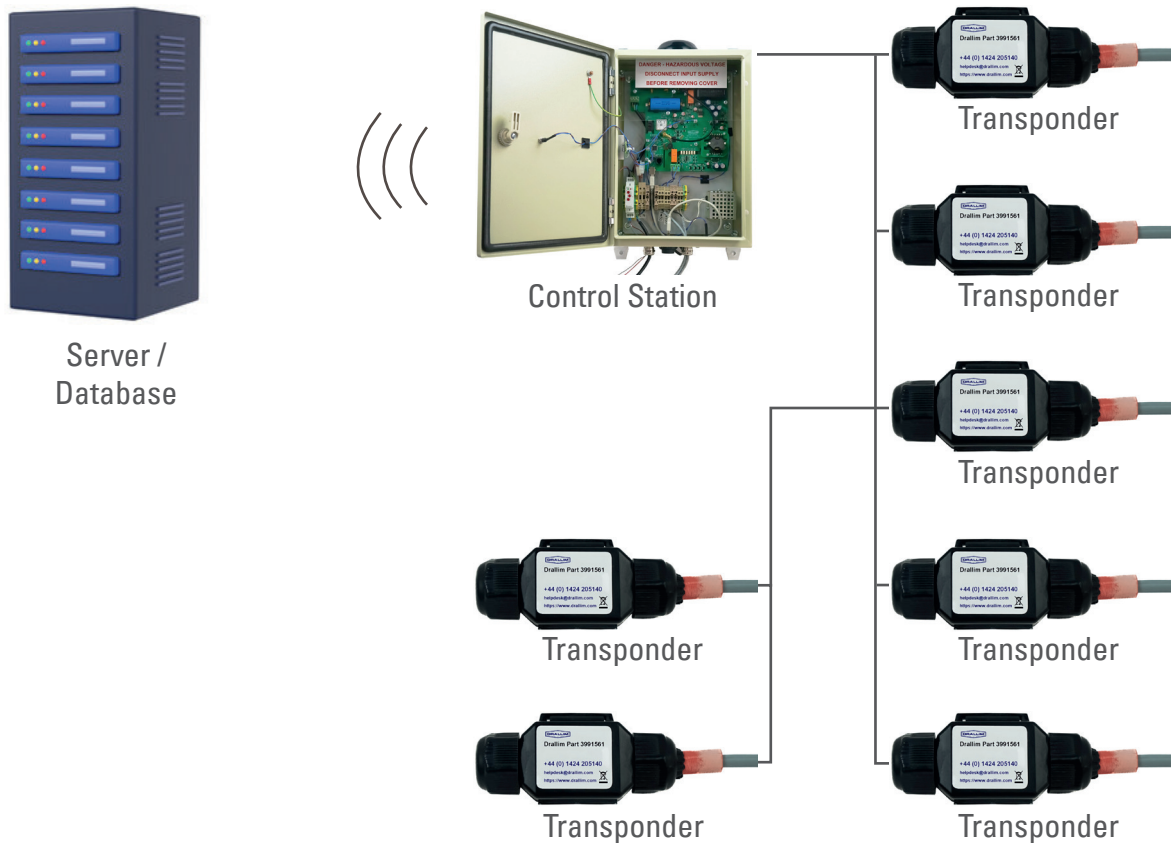
Transponders are connected through the system at designated points, configured within the Control Station through a USB interface with a computer.

The Control Station is housed within a heavy duty wall mounted steel cabinet, with a silent alarm to alert users tampering, and a battery backup to alert removal of the mains power. To prevent network tampering, each transponder is configured with a network key for secure communication with the Control Station to prevent transponders being relocated, and the Control Station generates a revolving key to further prevent tampering.

Alarms from the Control Station are all sent through SMS text message. All telemetry can be sent to an off-site server system to maintain a permanent record and review; the off-site server can also be used to implement e-mail alarms.

Images for Illustrative purposes only

Server / Database

Control Station

Transponder

Transponder

Transponder

Transponder

Transponder

Transponder

Transponder

System Components

Control Station

- Wall mount steel enclosure
  - 460*300*170 mm
- 230 VAC mains supply
- Battery backup
- Transponder interface 5 kV Isolated from supply
- 10 km range (connected cable length)
- Two output channels
- Up to 30 connected Transponders
- SMS Alarms
- Local USB configuration

Server (Optional)

- 2G/4G Router
- Data interface / Alarm delivery software service
- Email alarm delivery
- Requirements
  - Microsoft Windows Server
  - >10 MB/s internet connection
  - Edge/Chrome browser compatible
  - 230 VAC mains supply

Transponder

- Miniature design for discrete installation
  - 100*40*25 mm
- Hardwired, line-powered, 2-wire protected cable
- Tamper/orientation monitor

For further information and to see our complete product line, please visit www.drallim.com.
The images shown are for illustration purposes only and may not be an exact representation of the product.
Products and specifications subject to change without notice.

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