



CERBERUS

Cable Protection System

Cerberus Cable Protection System was developed to reduce the incidence of cable theft to installed electrical infrastructure through the active monitoring of pit lid disturbance. Cerberus is comprised of two components: a tilt sensor attached to a cement, plastic or steel pit lid and a gateway which is mounted inside an electrical switchboard or central location with mains power. A long distance WIFI connection is maintained between the two units with a GSM link from the gateway to your chosen notification location.

Cable protection is provided for all event situations:

- Pit lid disturbance (Immediate – indicates pit maybe tampered with)
- WIFI antenna removal (within 1 minute – indicates sensor may be tampered with)
- Gateway mains power loss (Immediate – indicates gateway may be tampered with)
- Sensor low battery (Immediate - indicates replacement battery required)

Notifications. All notifications will include the time and pit reference for easy identification

- SMS – A SMS can be sent upon alarm to your selected contact.
- Email – An email can be sent upon alarm to your selected contact
- Voice Call – A automated voice call can be placed to your selected contact

Response

- Cerberus can be optioned with an audible and visual alarm indication system.
- Alarm notifications can be provided directly to an alarm response service.
- Trigger can be supplied for further integration into security systems.

Sensor

- Measures Pitch and Roll (-179.9° to 180.0°)
- Resolution: 0.1°
- Configurable thresholds for pits installed at varying angles.
- Wireless range of up to 600m
- Frequency-Hopping Spread Spectrum (FHSS)
- Best-in-class interference immunity.
- Best-in-class power management for longer battery life.
- Encrypt-RF Security (Diffie-Hellman Key Exchange + Advanced Encryption Standard (AES)-128 Cipher Block Chaining (CBC) for sensor data message)
- Automatic over-the-air updates for sensor firmware (future-proof)



Actual range may vary depending on the environment.

Gateway

- 4G LTE CAT M1/NB2 cellular technology
- Over-the-air (OTA) updates (future-proof)
- True plug and play, no hassles for internet configuration setup
- No PC required for operation.
- Local status LEDs with transmission and online status indicators
- Magnetic on/off power button
- AC power supply
- Up to 60-hour battery backup in the event of a power outage
- External magnetic utility switch

