

## Tunnel Monitor Tunnel Lighting Control System

### Overview

Tunnel monitor is a complete digital lighting control system for tunnels. Built on Digital Addressable Lighting Interface (DALI) and Ethernet standards, the tunnel monitor system includes intelligent tunnel lighting controllers spread along the length of the tunnel on an Ethernet network.

Tunnel monitor portal controllers use a photometer to determine the light level at a tunnel portal and control the tunnel lighting with up to 16 programmable lighting configurations.

The portal controllers are linked on an Ethernet network with tunnel monitor lighting controllers and optionally with the client's supervisory computer. Each tunnel lighting controller monitors and controls DALI lighting control gear according to the lighting design criteria.

### Benefits

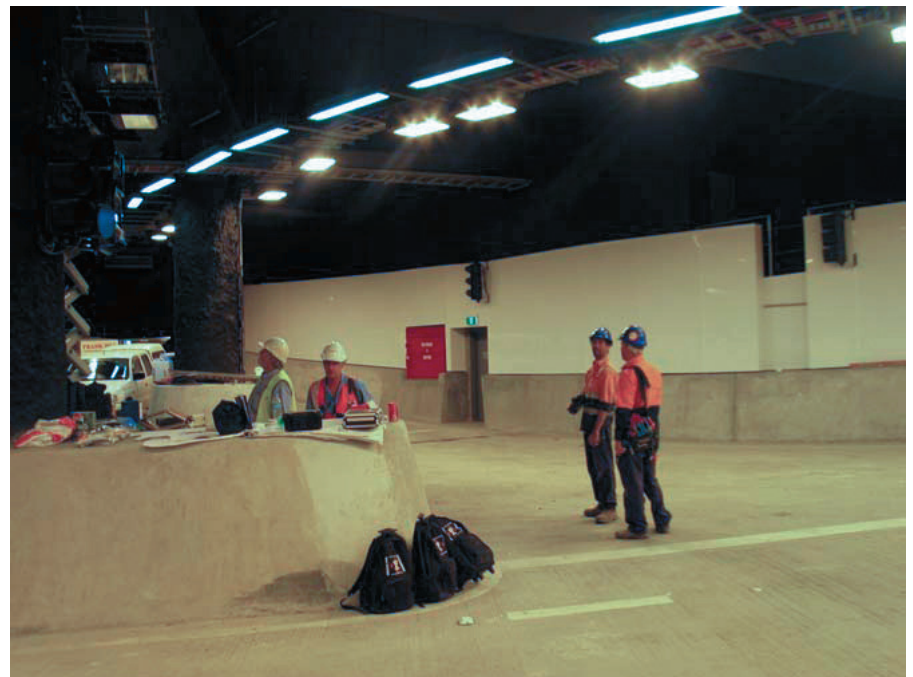
- Automatic control of tunnel lighting based on light level at the tunnel portal.
- Up to 16 internal lighting configurations.
- Automatic monitoring of ballast and control gear status and lamp failures.
- Manual override control.
- Computer override control.

### Tunnel Monitor Components



The Tunnel Monitor system consists of the following components:

- Tunnel monitor portal controller (1 per tunnel portal).
- Photometers and analogue-to-digital converter.
- Manual override/test switches (optional).
- Tunnel monitor lighting controllers.
- HID and/or fluorescent light fittings with DALI control gear.
- DALI line power supplies and interfaces.
- Tunnel monitor configuration and management software.



### Features

- **Distributed Control**  
Tunnel monitor controllers have built-in intelligence so they continue to run control functions even when disconnected from your computer. The controllers do not require a server to run as they have their own microprocessor and memory. Tunnel monitor intelligent controllers are firmware upgradeable to ensure a long lifecycle.
- **International DALI Standard**  
The tunnel monitor system is built on the international Digital Addressable Lighting Interface (DALI) standard for lighting control. Offering true digital control of lighting ballasts, transformers and emergency lights, each tunnel monitor controller manages 2 DALI lines and up to 128 ballasts.
- **Manual Overrides and Test Switches**  
Each tunnel monitor controller provides 16 digital inputs for connection to override and test switches.
- **Alarm Outputs**  
Digital outputs are included to provide local alarm indication at each tunnel monitor controller.
- **Status and Error Reporting**  
The tunnel monitor system can monitor the status of every DALI ballast and lamp. Failures are reported with type and location details, simplifying the task of maintenance staff. Tunnel monitor controllers include a built-in webserver to provide status information without the need for specialised software and status reporting over the Internet.
- **Easy Integration with SCADA Systems**  
The DALI control system can be easily integrated with Supervisory Control and Data Acquisition (SCADA) systems using our optional tunnel monitor OPC server.
- **Configuration Software**  
The DALI control software provides easy configuration of DALI addresses, groups and lighting levels. The system is built on over 15 years of lighting control experience and enables control groups to be simply altered to accommodate changing tenancies and enforce energy saving practices.

### To Special Order

- Tunnel monitor systems are available by special order only. Please contact our DALIcontrol specialists; visit the links on the website at [clipsal.com/global](http://clipsal.com/global).

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You can find this data sheet and many others online in PDF format at:  
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