

TM150-2 Traffic Controller

Product Features

- Available in LV (230V) or ELV (48V)
- TR2500 Approved Controller
- UTMC 2.0 Compliant Interface built in
- Proven track record of reliable ELV Lamp Monitoring
- Ethernet, modem and terminal access
- Internal 3G/EDGE Mobile IP Connectivity
- Built in web pages for easy status monitoring
- Simple controller interrogation with Enhanced Manual Panel
- LCD display, allows access to configuration details
- Simple Terminal Access via 25-pin port
- Fault log accessible from Manual panel, terminal or web.
- Simple configuration package with a PC based emulator
- Traffic control configurations stored in flash memory
- Optional serial connection for UK Detector Packs
- Compatible with MOVA, UTMC and Bus Priority
- Internal Traffic Count facility available
- Available in Aluminium and 304 Grade Stainless Steel Cases.
- Colours Black or Grey, other colours available to order.



LARGE CASE 16 PHASE CONTROLLER

The TM-150-2 Traffic Controller is a modern, flexible, and high performance traffic controller, which meets the requirements of TR2500. The TM-150-2 is available in both LV (230Vac) or ELV (48Vac) versions.

For complete flexibility in site design, the TM-150-2 is available in versions from 8 to 48 phases. The 8/16 phase TM-150-2 offers up to 16 phases with up to 32 serial loop detectors or serial digital inputs. The 32/48 phase TM-150-2 offers up to 48 phases, with up to 64 serial loop detectors or serial digital inputs. In addition to this, both types can have up to 128 digital inputs and 128 fully isolated digital outputs.

All Motus Traffic controllers are equipped with a dedicated Safety CPU to improve performance and enhance safety. The Safety monitoring includes signal conflicts, mains supply parameters, plan cycles, signal timings, and lamp monitoring parameters.

The TM-150-2 can be installed with a secondary processor responsible for 3G/EDGE Mobile IP communication and the soon to be introduced Integral MOVA.

The TM-150-2 has a comprehensive web based suite of software tools allowing sophisticated analysis of controller and traffic data in real time

Due to continuous efforts to develop products that are responsive to customer needs, the above specifications are subject to change



Technical specification

DIMENSIONS

1200 mm x 735 mm x 425 mm (H x W x D)

CONFIGURATION

Up to 48 Phases

Up to 64 serial loop detector inputs which can be used as extra digital inputs

Up to 128 digital inputs rising to 192 inputs with above digital inputs

Up to 128 isolated outputs

ENVIRONMENTAL

Operating Temperature range: -40°C to +70°C Operating Humidity: 0% to 99%

Storage Temperature range: 0°C to +40°C Storage Humidity: 10% to 80%

REGULATORY

TR2500A Appendices A to L, UK Controller Specification

EN 12675 Traffic signal controller, Functional safety requirements

EN 50293 Road traffic signal systems, Electromagnetic compatibility HD 623 S1 Road traffic signal systems, Harmonization document

EN 60439 Safety and electrical requirements

POWER SUPPLY

LV & ELV Options: 230Vac -20% to +15%, 50 – 60 Hz

LAMP SUPPLY

LV Option: 230Vac / 160Vac

ELV Option: 48Vac / 28Vac

LAMP SWITCH CARD

500W output

Independently fused outputs: Phase and colour

CPU

Advanced Custom ARM 9 Processor Bespoke Linux based firmware

Built in Web Pages for Status Monitoring

SAFETY CPU

Independent Safety CPU supervises controller CPU and monitors configuration and health

SECONDARY CPU - (coming soon)

Secondary processor for mobile IP communications, UTM2.0 and Integral MOVA

INTERFACE

Ethernet, RS232 Serial Handset Terminal, UTM2.0 compliant interface built in.

RELIABLE ELV LAMP MONITORING

Proven track record of reliable ELV lamp monitoring in both Bright and Dim lamp configurations

MANUAL CONTROL PANEL

Complete built in operator's panel for detailed configuration access without the need for a terminal device.

Simple to use Mode Buttons and backlit LCD information display



STANDARD MANUAL PANEL

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