

TM-150-2 Traffic Controller

Product Features

- Available in ELV (48V_{AC}) or LV (230V_{AC})
- TR2500 Approved Controller
- Integral UTMC 2.0 Compliant Interface
- Proven track record of reliable ELV Lamp Monitoring
- Ethernet, modem and terminal access
- Internal 3G/EDGE Mobile IP Connectivity
- Integral web pages for easy status monitoring
- Simple controller interrogation with Enhanced Manual Panel and LCD display
- 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
- Compatible with External MOVA, UTMC and Bus Priority
- Internal Traffic Count facility available

- Aluminium and 304 Grade Stainless Steel Cases
- Black or Grey case, 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 ELV (48V_{AC}) or LV (230V_{AC}) versions.

For complete flexibility in site design, the TM-150-2 is available in versions from 4 to 32 phases. The 4/8/16 phase TM-150-2 rack offers up to 16 phases with up to 32 serial loop detectors or serial digital inputs. The 32 phase TM-150-2 offers up to 32 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, including the Motus Cloud.

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

Head Office

342 Coleford Road
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Sheffield
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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

ELV Option: 48Vac / 28Vac

LV Option: 230Vac / 160Vac

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

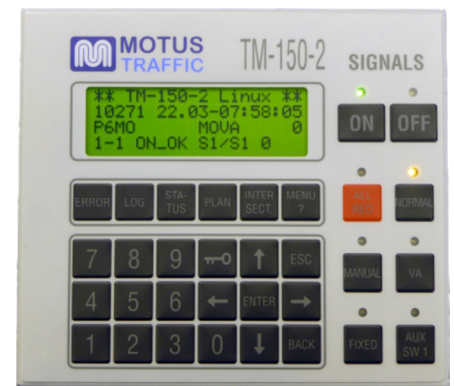
Integral Ethernet, RS232 Serial Handset Terminal and UTM2.0 compliant interface

RELIABLE ELV LAMP MONITORING

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

ENHANCED MANUAL CONTROL PANEL

Integrated operator's panel for detailed configuration access without the need for a terminal device. Simple to use Mode Buttons and backlit LCD information display



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