

SMART ROAD TRAFFIC CONTROLLER – SRTC 6

INTRODUCTION

SRTC 6 is a modular controller for road traffic systems. Due to its high versatility and software support, SRTC-6 may be used in large number of applications: as intersection controller, as a unit in tunnel supervision and control systems, in smart roads and VMS applications etc.

KEY FEATURES

- minimal module count for all required functionality,
- use and reuse of standard, tested modules for cost effective solution,
- DIN rail mounting,
- extensive software support for easy programming and diagnostic,
- optional attachable diagnostic display,
- various communication options (TCP/IP as standard, others may be ordered),
- safety and standard compliance.

SOFTWARE

Configuration and customization is possible via graphical software tools. Flexible programming platform allows for almost limitless traffic program actions.

KEY FUNCTIONS

- **Multiple signal plans:** The controller has multiple different signal plans, each providing different operating modes of intersection.
- **Coordinated operation:** Multiple controllers can be operated close to one other, giving "green wave" to drivers.
- **Traffic-actuated operation:** The controller can extend (green in) phase, skip phase or even reorder phases based on traffic sensed by traffic detector units of various type (inductive, microwave, video detection or infra-red).
- Pre-emption: The controller can shorten phase, reorder phases, or hold phase due to some external event (for example incoming train or tram).
- **Priority of public transport:** The controller can process request for incoming public transport vehicles, giving them priority green if possible.
- **Support for additional devices:** Special devices can be operated by controller which add to safety, better operation, or informative capabilities, such as countdown traffic lights (or green counter), variable message signs, GPS receivers, SMS messaging units, etc.
- **Communication capabilities:** The unit is able to communicate with other units or with higher level (traffic control centre) via various communication paths, protocols and media types.
- **Data collection:** The controller collects, stores and forwards traffic data, system logs and other important data.









SPECIFICATIONS

Mechanical and electrical	
Dimensions (mm)	various sizes
Installation	DIN rail mounting (EN 60715)
Environment	
Operating temperature	-25 +75°C
Humidity	5 95% non-condensing
Communication	
Interfaces	RS-232, RS-485, ethernet, GPRS/ EDGE/3G, etc.
Electrical	
Voltage	24 - 240Vac
Max. signal outputs	96 controlled + 96 repeaters (per bus)
Inputs and outputs	6/8 internal, external unit available
Output control	voltage, current, power measurement
Minimum load	3 W (resistive)
Maximum sustained load	460 W (resistive)
Minimum turn-on current	13 mA (rms)
Output type	solid-state
Breakdown input voltage	600 V (peak)

APPLICATIONS

- Intersection control (Traffic lights controller)
- Tunnel supervision and control
- Smart roads
- Vehice-to-infrastructure communications
- Industrial automation
- Communication interfaces
- Protocol conversion

KEY BENEFITS

- cost-effective
- simple DIN rail mounting
- versatile interfacing options
- easy to use and program
- safe and secure
- standards compliant

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