



SOTU

Urban Traffic Control



Traffic Controller Adaptor For SCATS™ Compatibility

Now you can use the world famous SCATS™ system with most existing non-SCATS™ traffic signal controllers. An often raised objection to installing SCATS™ in some cities, is the requirement to replace all of the cities controllers with standard SCATS™ compatible controllers such as the Tyco Eclipse/PSC. This objection is particularly relevant in cities that already have some type of urban traffic system and / or a large installed base of reasonably new traffic signal controllers.

For these situations, Tyco has now produced an Out-Station Transmission Unit for SCATS™ called a SOTU. The SOTU can control any local controller that has hurry call or force / hold inputs or logically controllable detectors. Arguably the most successful and practical UTC system in the world, SCATS™ has been installed in over 80 cities by Tyco Traffic & Transportation.

Features

- Can be added to virtually any reasonably "intelligent" controller to interface it to SCATS™
- Provides almost the full suite of SCATS™ functions
- Can operate in all SCATS™ modes: Masterlink, Flexilink (Cable-less linking), Full Isolated (Vehicle Actuated or Fixed Plan)
- In Masterlink, Flexilink and Isolated modes, the SOTU controls all actuated gap and density timing
- Even in SOTU Isolated (VA) mode the SOTU can still control the local controller
- Control can be transferred to the local controller entirely - this is called LOCAL operation. LOCAL mode sets control back to true local controller mode (in this mode, monitoring is still valid)
- If the SOTU fails, the local controller will revert to LOCAL operation. In addition, a SCATS™ operator or SCATS™ scheduler can instruct the SOTU to send the controller to go to LOCAL mode



- The current mode of operation of the controller / SOTU is reported to SCATS™ and displayed on the SCATS™ monitor screen
- Feedback of each signal group green is provided from the local controller so that these can be correctly reported to SCATS™ graphics and data collection
- All SCATS™ system detectors are connected to SOTU (24 max). Some or all of these may be existing detectors which also feed into the existing local controller. These detectors provide the required traffic density information to SCATS™
- SCATS™ extended WALKS are supported. (This feature requires the local controller to be able to accept an input to control the duration of local controller pedestrian WALK duration)
- Flash and blackout monitoring is still available
- Local hurry calls / pre-emption operation can be reported to the SOTU for transmission to SCATS™
- Local conflict alarm is passed to the SOTU to report to SCATS™

- The local controller still controls all lamp switching and conflict monitoring
- Local "type approvals" relating to the controller operation are not violated (the SOTU does not actually control any safety aspects)
- The SOTU can use any detection - NEMA / Eurocard loop detectors as well as video imaging technology
- If the local controller is capable of lamp monitoring, then the SOTU can then transmit this status to SCATS™
- Technicians Hand Held Terminal port or laptop
- Equipped with both a built-in analogue modem and an RS232 port for data communications
- SCATS™ controller time-settings are accessible and up / down loadable to the SOTU

General

- UTC (SCATS™ Compatible, full adaptive operation plus 28,000 plan combinations)
- Cable-less Linking for fallback operation - (Flexilink time based co-ordination with 11 Plans)
- Isolated Vehicle Actuated
- Fixed Time
- Hurry Call
- Manual Control
- Local Fall Back

Capacities

- Number of Signal Groups monitored: 24
- Maximum number of system detectors: 32
- Maximum number of stages controlled: 7 (additional sub-stages are available)

Communications

- Interface to Central Computer: Integral SCATS™ modem
- External modem via RS232 (to 9600 bps)
- Interface to Hand Held Terminal: RS232
- Interface to Field Terminal: RS232

Operator Interface

- Hand-Held Terminal LED display: 4 lines of 20 characters
- Password protection of critical parameters

Electrical Specification

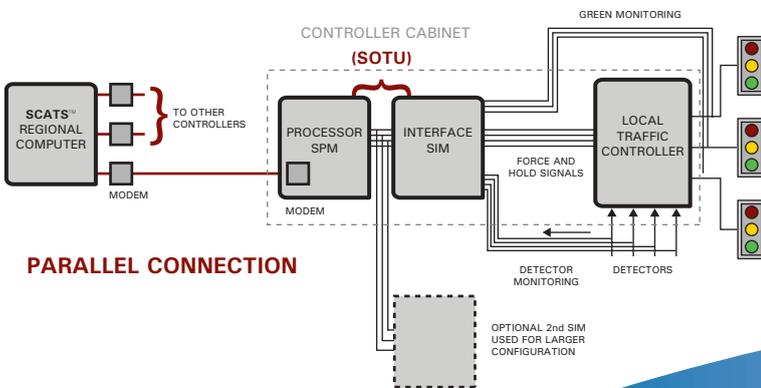
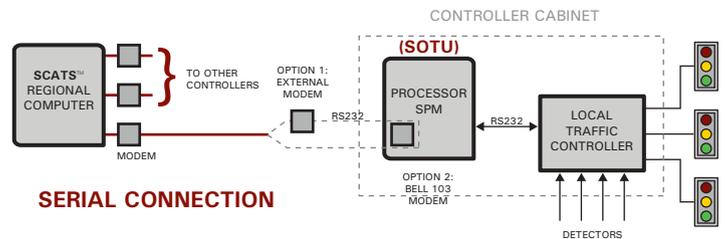
- Nominal Mains Supply: 100-120 & 220-240 VAC
- Mains Supply Frequency: 50/60 Hz
- Protection against external voltage surges

Environmental

- Ambient Temperature: -10°C to +65°C
- Ambient Relative Humidity: 0% to 95% non condensing

Physical

- Size: 170mm H x 100mm W x 260mm D



**Specifications are subject to change without prior notice*

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