

# FORTH

TRAFFIC SYSTEM

## »» Traffic Signal Controller



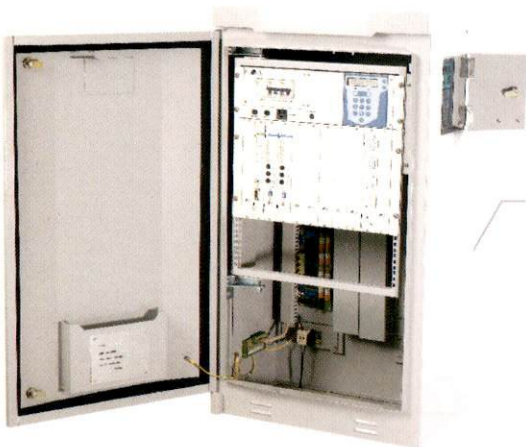
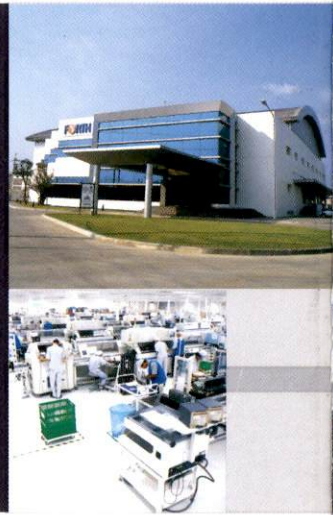
# Traffic Signal Controller

Genius Traffic System Co., Ltd is a subsidiary of Genius Communication System Co., Ltd - Thai pioneer and leading manufacturer of office telephone system under the FORTH brand.

Our research team comprises of fully qualified and experienced engineers who aim to develop excellent traffic solutions for our transport systems.

Our production facilities employ the latest high-technology machinery and equipment to ensure high quality production. Coupled with a rigorous implementation of the ISO 9002 certified system, our products are proven to be reliable, user-friendly and robust. All FORTH products are registered under the Thai Industrial Standards Institute.

FORTH products are vigorously tested in the sun and rain to ensure they withstand the hot, humid and dusty environment of roads. They are also designed to withstand electrical current drops and overloads.



## FORTH EXPERTISE

The FORTH Traffic Signal Controller was researched and developed in-house by the FORTH professional engineering team. Using the latest available technology, our Traffic Signal Controller is designed to be rugged, dependable and error prevention. Our equipment also features ease of installation and low maintenance cost.

## DESIGN

FORTH Traffic Signal Controller consists of modular components for easy installation and replacement. Circuit boards for different functions are separately mountable on standard 19-inch racks for maximum repair efficiency.



## LCD DISPLAY

An all-weather robust LCD screen displays countdown and equipment status for easy management. Errors and unusual events are recorded and the data is generated into a report complete with date and time. This allows the operator to confirm and investigate problems effectively. The panel is also equipped with soft-key buttons to select between program instruction options.

## USER INTERFACE

For convenience in installation and maintenance, FORTH TSC is equipped to interface with real-time programmable function enabling on-site control setting (multitasking) via TSC programming menu or a laptop computer.



## FEATURES

- Control system options available:
  - Vehicle actuated mode
  - Fixed time mode
  - Hurry call mode
  - Manual control mode
  - Flashing mode
  - Cable link mode
- Operator able to change phase sequence in manual mode.
- In vehicle-activated mode, it contains the functions of variable initial green time / maximum green time, early cut-off and late start.
- Programmable for up to 8 control schedules per day including special settings for weekdays, Saturdays, Sundays and holidays (special settings up to 99 days) on the Date / Month / Year basis such as New Year period.
- Utilizes a real-time clock capable of accurate operation for 10 years without need for battery replacement.
- Separate system modules on standard 19-inch racks with swing window for easy installation and maintenance.
- Features built-in 14-key keypad and on-board LCD menus for in-operation programming.
- Event log data and fault log data collection, including upload logs to computer for further data analysis or monitor via the controller LCD.

## CONTROLLER CAPABILITIES

- 8-phase standard, expandable to maximum of 24 (at 4-phase increment).
- Supports up to 32 vehicle actuation detectors.
- Supports up to 64 input-output ports.
- Adaptable to support ATC systems.

## PROTECTION AND SECURITY

- Electrical overload protection system with miniature circuit breakers for the main system line and traffic signal output control.
- Surge protection system for main system line and output included.
- Hardware watchdog system to monitor microprocessor performance.
- Green conflict check system.
- TriAC short circuit sensor.
- Features automatic revert to flashing mode in the event of malfunctions.

## TECHNICAL CHARACTERISTICS

Temperature	-15°C to 70°C
Voltage / Frequency	220V AC 50Hz

## HARDWARE SPECIFICATIONS

Microprocessor	Intel 80186 16-bit
Memory	256k byte RAM 512k byte Flash 32k byte EEPROM 512k byte EPROM
Communication	2 serial ports - RS232



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