QuicTrac™

Adaptive Signal Control Software

Overview

McCain's *QuicTrac*™ adaptive control, a component of *QuicNet Pro*™ central software, coordinates traffic signals along a corridor based on prevailing conditions, smoothing traffic flow and enhancing arterial performance. By reducing the number of stops and delays, this innovative, cost-effective solution expedites travel times, minimizes congestion, and reduces fuel consumption and emissions. Best of all, in today's eco-conscious political climate, *QuicTrac* software provides a vehicle for securing federal funds under an increasing number of legislative and funding initiatives that require a positive environmental impact.

Benefits

- Improves arterial performance by adjusting to real-time traffic demand
- Field-proven system for reducing delays up to 46%
- Boosts intersection efficiency and mobility
- Minimizes congestion and emissions
- Positively impacts the environment helping to secure federal funds under green legislation
- Compatible with 170 and 2070 controllers
- Easy-to-use Windows based software

Product Description

McCain's *QuicTrac* adaptive control software is a field-proven solution for real-time actuated signal control along a corridor. Resulting in fewer accidents, less congestion, smoother traffic flow, decreased pollution, and happier drivers!

QuicTrac software collects data from a modest number of field detectors - loop or video - requiring only enough detectors to obtain a reasonable sampling of speed along the corridor. Acquired data is then analyzed using McCain's proprietary algorithms, calculating optimum cycle lengths, splits and offsets based on prevailing traffic conditions.

Compatible with Model 170 or 2070 controllers, QuicTrac adaptive control requires no special hardware. Best of all, as an integral part of *QuicNet Pro* central software, training is minimal and *QuicNet Pro* software users can be brought up to speed in a matter of hours.

QuicTrac Adaptive Control

Traffic Conditions Established

Field detectors, loop or video, collect data on prevailing traffic conditions.

Modest system detector requirements demand only enough detectors to reasonably sample speed along the corridor.

Local Controllers Collect Volume Data

Local controllers collect data from field detectors which are then sent to the *QuicTrac* software module of *QuicNet* central control software.

Optimal Signal Timing Calculated for Corridor

QuicTrac adaptive control software utilizes McCain's proprietary algorithms to analyze data from the controller network to calculate optimum signal timing along the entire corridor to expedite traffic flow in the desired direction.

QuicTrac software then distributes cycle lengths back to the individual local controllers.

New Split Patterns Calculated

Local controllers utilize cycle length data received from *QuicTrac* software to determine new split patterns.

Signal Timing Optimized

Signal timing is adjusted to expedite traffic flow along the corridor creating fewer stops, yielding less congestion and accidents, and reducing harmful emissions.

System Specifications

Compatibility

- Multiple communication channels
- Model 170 or 2070 controllers

System Requirements

- *QuicNet Pro* central software (see separate data sheet)
- Field detectors, existing or new installation, video or loop technology. Exact number required based on corridor length and number of signals.

Installation

- As a component of *QuicNet Pro* central software, the installation process for *QuicTrac* adaptive control is quick and seamless.

To learn more about McCain's Integrated Traffic Solutions, please contact info@mccain-inc.com or call (760) 727-8100

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