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Coupled with proven products and development experience, as well as highly regarded consulting services, we form the world's foremost traffic control and transportation management company. Siemens is very active in the development of new industry standards, and we have helped to form positive industry standards and develop new "state-of-the-art" products, including the NTCIP C2C protocol and the Advanced Traffic Controller Specification.

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SEPAC

Piecing it all together...



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SIEMENS

SEPAC incorporates over 20 years of actual “on-street” traffic control experience.

A user-friendly software that accommodates a variety of traffic control requirements.

SEPAC is Siemens local controller software package for actuated traffic signal control, designed for the Eagle EPAC, 2070 ATC, and ATCNX controllers. SEPAC local controller software incorporates over 20 years of actual “on-street” traffic control experience. The software is user-friendly and it accommodates a variety of traffic control requirements through its diverse programming configuration capabilities.

SEPAC’s traffic capabilities include six coordination modes, adaptive traffic control, preemption/priority routines, numerous standard reports, built-in diagnostics, and time base control. Programming advantages include user-friendly, 8 line menu driven software, each parameter viewable within a menu and the cursor movable to that parameter for changes, easy verification with related parameters visible simultaneously, on-screen programming area and identification and editing prompts.

Six Modes of Coordination

There are six modes of coordination:

Permissive Mode provides non-actuated coord phase, vehicle and pedestrian, with permissive windows opened phase by phase to the non-coord phases. Yield Mode provides non-actuated coord phase vehicle and pedestrian with a single permissive window for all non-coord phases.

Permissive Yield Mode provides actuated coord phase vehicle and pedestrian with permissive windows opened phase by phase to the non-coord phases. Additionally, the coord phase vehicle may extend its green time at the beginning of the first permissive window. Permissive Omit Mode provides operation similar to Permissive Yield except that the coord phase once terminated, is prevented from occurring prior to the end of the last permissive. Sequential Omit Mode provides operation similar to Permissive Yield except the permissive is a phase by phase sliding window (only one phase in a ring will be allowed service at any time). Full Actuated Mode provides operation similar to Permissive Yield except that any phase maybe serviced and reservices in the standard sequence following the first permissive and through the last permissive.

Adaptive Traffic Control

Adaptive Traffic Control offers simple or highly complex control via 16 vehicle phases, 16 pedestrian phases, 4 timing rings, 16 overlaps, and 80 detectors.

Adaptive Maximum Routines offer three separate Step values to cause the running maximum to increase or decrease smoothly based on current traffic conditions. Separate Dynamic Maximum parameters are available for each Step value.

Adaptive Protected/Permissive Routines measure the volume of left turn vehicle traffic and available gap windows in the conflicting through-vehicle traffic to de-



termine whether the left turn should operate protected or permissive.

Advanced Walk per Phase allows advanced walk times to be assigned per phase.

Conditional Virtual Split Routines provides for actuated coord phase vehicle and pedestrian modes. This control provides for a period of time of each cycle which is distributed to the Coord Phase(s) or non-coord phases, based on Coord Phase vehicle traffic activity.

Coordination Adaptive Split Routines adjust split time smoothly based on current traffic conditions.

Delayed Walk per Phase allows delayed walk times to be assigned per phase.

Mutual Coordination allows an input from a

Master to hold phases until release of the input or the expiration of a preset time.

Preemption/Priority Routines

Preemption/Priority Routines include 6 preempt routines providing complete signal control and 6 priority routines providing complete phase control and in-sync return to coordination. Preempt activity can be monitored on a Preempt Status display which denotes Preempt in Control, Interval Timing and Interval Countdown, Individual Preempt Status & Timing, and Individual Priority Status & Timing. A resident Diagnostic program enhances maintenance and troubleshooting of the controller. Time Base control is a highly flexible routine which includes 99 day programs, 10 week programs, 250 events for the control of Pattern Selection, Free,