

Advanced Local Controller Software

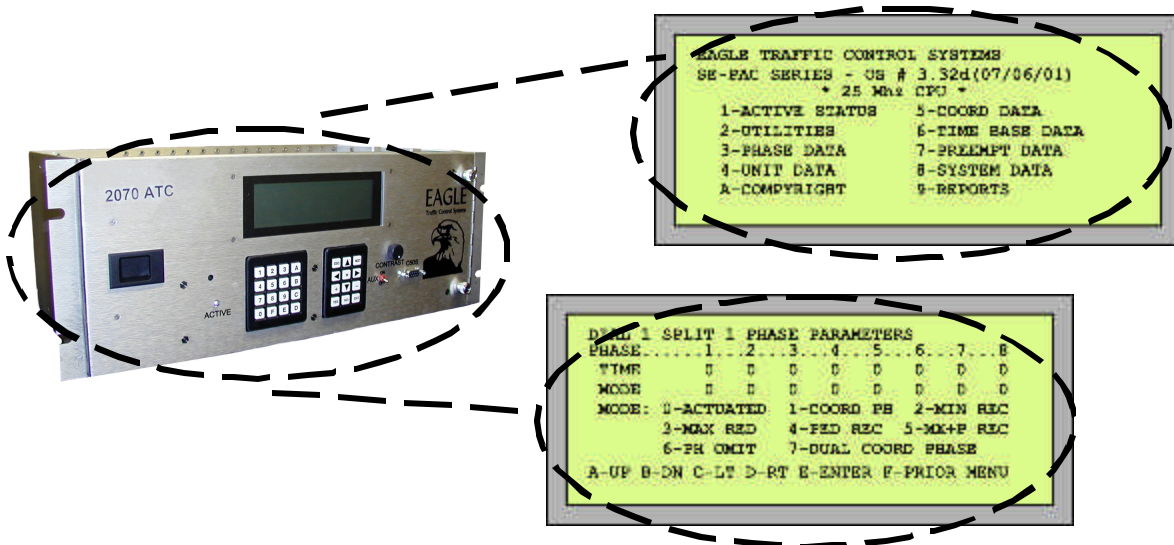
Actuated traffic signal control software for the 2070ATC controller is now available from EAGLE, a company with a long history and a strong reputation in traffic control. SE-PAC 2070ATC software incorporates 15 years of actual "on-street" traffic control experience. The software is user-friendly and it accommodates a variety of traffic control requirements through its diverse programming configuration capabilities.

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 identification and editing prompts.

Traffic capabilities for the 2070ATC with SE-PAC 2070ATC software include

- Six Coordination Modes;
- Adaptive Traffic Control;
- Preemption/Priority Routines;
- Numerous Standard Reports;
- Built-In Diagnostics;
- Time Base Control



The Six Modes of Coordination are

- **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 for 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 may be serviced and rescheduled in the standard sequence following the first permissive and through the last permissive.

Adaptive Traffic Control offers simple or highly complex control via

- 16 Vehicle Phases
- 16 Pedestrian Phases
- 4 Timing Rings
- 16 Overlaps
- 80 Detectors
- Adaptive Maximum Routines, which are enabled via Time Base, 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 determine whether the Left Turn should operate protected or permissive.
- 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, which are enabled via Time Based, adjust split time smoothly based on current traffic conditions.

DIAL 1 SPLIT 1 PARAMETERS

OFFSET	TIME	ALT	PATN	R2	R3	R4
#	SEC	SEQ	MODE	LAG	LAG	LAG
1	0	0	0			
2	0	0	0			
3	0	0	0			

MODE (0-6): NRM/PRM/YLD/PYL/POM/SOM/FAC
A-UP B-DN C-LT D-RT E-ENTER F-PRIOR MENU

SE-PAC	COORD	TIMERS	SEQ: 00	F-PRIOR	MENU
MANUAL		1/1/1	PRM/INH/BEG/PLN		
CYC	OFF	RING	1...2...3...4		
70	0	SETTING	.	.	.
0	0	ACTIVE	.	.	.
0	0	ADJUST	.	.	.
SYNC:	15	PHSE			
CORR:	DW	PERM			PRESS # DESIRED

PHASE	1	2	3	4	5	6	7	8
MIN GRN	7	10	7	7	7	10	7	7
PASS/10	10	30	10	10	10	30	10	10
MAX # 1	20	40	20	30	20	40	20	30
MAX # 2	30	50	30	40	30	50	30	40
YEL/10	40	40	40	40	40	40	40	40
RED/10	10	10	10	10	10	10	10	10

Preemption/Priority Routines include

- 6 Preempt Routines providing complete signal control;
- 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;
- Individual Priority Status & Timing.

A resident **Diagnostic** program enhances maintenance and troubleshooting of the controller assembly; extensive displays aid in intersection setup, monitoring and operation.

- Cycling Diagnostics
- Detector Diagnostics

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, Flash, Dimming, Detector Diagnostic Parameters, System Detector Logging, 3 Auxiliary Functions, 8 Special Functions, 16 Traffic Functions

Extensive **Status** is provided including:

- Ring Timers
- Coord Timers
- Preempt Timers
- Time Base
- Communications
- Detector Diagnostic
- Intersection
- Input/Output

Extensive **Reports** that include the date and time of occurrence can be generated

- Local Alarm Log
- Comm Fault Log
- Detector Fault Log
- System Detector Log
- MOE Log
- Speed Log
- Volume Count Log
- Cycle MOE Log