

W4IKS-PC104

170E, 170ATC, 2070 Local/ Master Software



DESCRIPTION

W4IKS is the most advanced, user friendly, and most widely used local controller firmware in the country. The IKS stands for “Includes the Kitchen Sink” and this firmware certainly lives up to it’s name. W4IKS-PC104, with the proper interface board, will run in a 170E, 170ATC, and the 2070 controllers. It will also work with both the parallel and serial ITS cabinets. The W4IKS-PC104 will be able to meet ATC specs—open systems for ITS projects with advanced features of NTCIP, ATC API and multitasking. And of course, the W4IKS-PC104 will run W4IKS timings.

This versatile PC104 program uses terms and timing parameters found in NEMA programs with the addition of many important features not found in any other programs. A unique command box feature allows users to “customize” the program and change the control logic to accomplish things that no other program can.

The philosophy at Wapiti Micro Systems is to provide a software package that is versatile enough to meet any unique applications your intersection may require. This concept eliminates the need for single application software that will only work in limited locations, thus allowing the user to standardize on one software package that can be used anywhere! We designed the structure and operation of the program to meet the needs of the practicing Traffic Engineer and Signal Technician for now and in the future.

FEATURES

- Enhanced 170 type FREE DISPLAY (*when used with 8 x 40 LCD display)
- Phase & Condition stay in view when entering data.
- Phase & Condition also shown in English.
- Keystrokes displayed on separate line.
- For data entry—the data label is shown with its value.

Phases

- Rings
- Overlaps
- Pages
- Intervals
- (4) Limited service charts
- (8) Right turn overlaps
- Advance warnings
- Overlap delay time
- Operator set barriers
- Soft recalls
- Restricted phases
- Conditional service
- Dual entry
- Left turn type

Per Phase

- Max & Max II
- Walk & Walk II
- Advance Walk
- Walk Delay
- Walk Min.
- Handicap Walk
- Flashing DW
- EV Flashing DW
- Min.
- Max Min Initial
- Passage

Per Phase - (continued)

- Min Gap
- TBR
- TTR
- ADD/Act
- Yellow
- All Red
- Red Revert
- Red Revert Min



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FEATURES—CONTINUED

Coordination:

- Operator set priority for plan implementation from:
TOD plan, TOY plan, Modem plan, Hardwire plan, Command Box plan, Input plan, Bus plan, Manual plan.
- (32) Plans
- Dwell or Enhanced transition
- Earliest start point for each phase
- Allowable service time each phase
- Max service time each phase
- Split or force off settings
- Ped permissive per phase
- Permissive 1 & 2 per phase
- Offset—offset point
- Plan to run with set ped activation
- Coord max recall
- Coord min recall
- Coord ped recall

Inputs/Outputs:

Each of the 64 inputs and 80 outputs has its own assignments (x5pages)

Outputs:

- Select output for pin from all available outputs (multiples allowed)
- Each output can be assigned for flashing.
- Each output can be assigned for dimming.

Inputs:

- 20 possible assignments for each input pin.
- Phase
- Extension and/or call
- Delay timing
- Carryover timing
- Type 3

Inputs (continued)

- Switching
- Ped
- Count
- Sample
- Fail on time
- Fail off time
- Length bin assignment
- Speed loop A or B
- Length
- Occupancy
- Options 1-4

Options = EV, RR, LRT, Bus, Ped inhibit, Adv Enable, Advance, Flash Sense, Stop Time, Flash, Hold, Force, Time Transfer, Max II, Free, Cycle, Split, Offset, Coord Plans 1-18, Special Functions, Command Box, Overlap Ped, Handicap Ped.

Pre-emption

- EV's
- RR's
- LRT's
- Bus

EV

- Delay
- All Red before EV
- All Red
- Min after call
- Min / Max
- Priority against other Pre-empts
- Hold priority
- Force priority
- Recovery method
- Min time before next call
- Early terminate phase
- Return phase(s)

RR

- Double clearance
- Clear phase(s)
- Clear overlaps
- Limited phase(s)
- Limited overlaps
- Return phases(s)
- Clear time 1
- Clear time 2
- Priority against other pre-empts
- Hold priority
- Force priority
- Invert input call

Bus

- Bus plans
- Delay
- Frequency
- Priority

LRT

Clearance phase(s)
Limited phases
Limited overlaps
Return phases
Delay
Time to Green for LRT
Allow move to return phase if time allows
Min / Max
Limited wait
Flash go light
Recovery method

Command Box

Hold priority
Force priority
(16) latches
(16) timers (6,499.9 seconds)
Box size—5000 entries

Traffic Management:

W4IKS-PC104 firmware has been designed to operate with W7OSM-PC104, an on-street master program also developed by Wapiti Micro Systems. Both have been developed to communicate with TrafficView32, a Closed Loop Traffic Management System. The purpose is to create a powerful system that allows a Traffic Engineer to fully control & maintain all of his intersections right from his desktop.

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