SWARCO
McCAIN INTERSECTION CONTROL SOFTWARE

PROGRAM 2033, 233

The SWARCO McCain signalized-intersection control software programs provide easy-to-use local intersection firmware for Model 170 and 2070 controllers. The programs' advanced feature set and user friendly display allow you to handle virtually any traffic signal configuration. SWARCO McCain's revolutionary software programs set the standard for local intersection firmware and are known around the world for high performance and reliability.

KEY BENEFITS

• Handles demanding transportation needs

• Supports multiple communication options

• Hardware independent software compatible with any TEES compliant controller

• Easy to learn, user-friendly interface

PRODUCT DESCRIPTION

The SWARCO McCain signalized intersection control software is compatible with any model 170 and 2070 controllers. The software allows for maximum configuration flexibility to accommodate virtually any field condition.

In addition to intersection control, the software contains multiple bus and light rail transit priority and preemption sequences to accommodate mass transit and emergency vehicles. Special event tables and internal logic allow custom preempt sequences to accommodate unique requirements.

The software supports multiple communications protocols and technologies.

When the software is used in conjunction with one of SWARCO McCain's advanced traffic management systems (ATMS), Model 170 and 2070 controllers can be placed on the same communication channel. This compatibility across platforms allows for a seamless migration to newer technology.

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STANDARD FEATURES

Phases
- 8-volume/density
- vehicle phases
- 8-pedestrian phases
- Split ring operation[1]
- Multiple phase timing banks (3), selectable by TOD/DOW or inputs
- Variable phase sequence
- Exclusive pedestrian phase operation
- Alternate timing for special vehicles or pedestrians
- Advance and delayed WALK operation

Overlaps
- 8 overlaps
- 3 overlap parent phase sets, selectable by TOD/DOW or inputs
- Negative vehicle and pedestrian phases

Detection
- 32 local and system detectors
- Phase assignments configurable per detector
- Each detector function configurable as count, call or extension
- Delay and carryover configurable per detector
- 3 detector function sets, selectable by TOD/DOW or input
- Detector failure monitoring[2]

Coordination
- 9 or 32 plan operations
- 32 TOD/DOW events
- 32 holiday events
- Traffic responsive plan selection when used with Transparity® TMS
- 3 permissive periods
- Phase sequence selection by plan
- Recall selection by plan

Communications
- Internet Protocol (IP)
- QuicComm™
- AB3418E
- RS-232/422
- Bell 202T[3]
- Dial-up/dial-back[4]

Priority and Preemption
- 4 transit priority early and extended green
- 4 emergency vehicle preemption sequences
- 2 railroad preemption sequences
- 2 special event sequences of 16 steps each, suitable for light rail

Internal and Logic Gates
- 4 x 2 - Input AND
- 8 x 2 - and 4 - input OR
- 4 x 2 - Input NAND
- 4 x NOT
- 6 x Delay Timers

Inputs
- General purpose alarm
- Special functions
- Pre-timed operation
- NEMA functions: Max inhibit, force off, CNA, hold
- Phase banks (3)
- Overlap sets (3)
- Detector sets (3)
- External permitted phases

Outputs
- Coordination plan
- Detector failure
- Advance warning beacons

Time of Day and Week Functions
- Red and yellow lock
- Minimum, maximum, and soft recall
- Pedestrian recall
- Rest in walk
- Double entry
- Second maximum
- Conditional service
- Phase sequences
- 8 seasons
- 8 outputs

Miscellaneous
- Fast output flashing
- Automatic download of timing database when used with *Transparity* TMS
- 4 flash patterns
- Compatible with international line voltage: 220 VAC, 50Hz[5]

COMPATIBILITY

PROGRAM	COMPATIBILITY						
	170E	170E HC11	170 ATC HC11	2070L	2070L 220V	2070LN1 NEMA	2070LN1 220V
2033				x	x	x	x
233	x	x	x				

[1]Program 233
[2]Stuck on, stuck off, and erratic calls
[3]Wire FSK
[4]PSTN
[5]2033 only

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