


Trafficware - v85 Controller "Quick Reference"

FUNCTION	MENU LOCATION	NOTES
General		
Turn Run Timer ON / OFF	MM>1>7 or MM>8>5	Will shut off outputs to the load bay
Login with Password (if required)	MM>8>1	User# and Access Code are required and set by the System Administrator
Backup & Restore Database	MM>8>3	Allows a user to backup & restore the database to\from internal or USB memory
Clear/Initialize Database	MM>8>4>1	Will erase entire existing database & install new template
Clear TS2 Faults (TS2 only)	MM>8>7	Clears/Resets active latched SDLC errors
Phase/Ped Recalls	MM>5>6 or MM>1>1>2	Recalls stay in FREE & COORD until removed
Unit Parameters	MM>1>2>1	Set global controller settings,PhaseMode,USER-Mode,StartFlash
Overview Status Screen	"ALT", then "9" or MM>7>9>5	Displays Timing mode, if in Flash details the source, (TS2 displays the reason)
Firmware Revision	Press "ALT", then "9", then "Enter"	Displays the active firmware rev and communication mode
Overlap Programming	MM>1>5	16 available Overlaps, output per programming in MM>1>8>1
Set General Communication Parameters	MM>6>1	Set Controller ID# and Comm language
Set Ethernet Communications	MM>6>5	Sets Ethernet communications parameters
Set Port Bindings	MM>6>6	Associates hardware communication ports with logical software ports
Set Date & Time	MM>4>1	Make entry in the "Set To" row for each
Set Daylight Savings	MM>4>6	If ATMS or Master sets the controller time, then turn this OFF
Force a Pattern to override TBC	MM>2>1	TestOpMode entry of 1-48 for patterns, 254 for FREE, 255 for FLASH, 0 for TBC
Status Screens		
Signal Timing	MM>7>1, MM>7>4	Shows Rings, Active/Next Phases, Calls and Timing
Vehicle Detector Inputs 1-32	MM>5>7>1	Processed Input status AFTER Delay, includes EXTEND
Vehicle Detector Inputs 33-64	MM>5>7>2	Processed Input status AFTER Delay, includes EXTEND
Pedestrian Detector Inputs	MM>5>7>3	Helps determine if inputs are working or faulty
Detector TS2 Fault Alarm Status (TS2 only)	MM>1>6>9	Logged TS2 Detector Faults D2-D9 by Detector# and Date/Time
Coordination Status - Main	MM>7>2 or MM>2>8>1	Active/Next Patterns, Pattern Source, Transition Timers
Coordination Status - Faults	MM>2>8>5	Pass/Fail of active pattern and reason for Fail
Coordination Status - Clear Fault	MM>2>8>4	Clears Coord Fault and allows controller to recover pattern
Coordination "Easy Calcs"	MM>2>8>2	Displays Force-Off, Apply, and Yield Points for active pattern
Alarm Status	MM>7>5	Displays Active Alarms
Comm Status	MM>7>6	Displays incoming/outgoing port activity as ASCII data
Screen Calls	MM>7>9>9	Allows user to place Vehicle\Ped and Preemption calls via keyboard
SDLC Bus & Device Status (TS2 only)	MM1>3>7	SDLC status by device
Coord & Preempt Inhibit Status	MM>7>9>6	Display when Coordination or Preemption activity is Inhibited by Phase/Channel
Coordination Fault Timer	MM>7>9>7	Displays Fault Timers for each phase to determine lack of phase servicing
Input Status	MM>1>8>8	Displays active status of all inputs
TBC Status	MM>4>7	Displays Day Plan, Day Plan Event, & Action of the active Coord plan

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Timing & Phasing		
Phase, Ped, Density Timing-FREE operation	MM>1>1>1	Main Phase Timing entries
EnablePhases, DualEntry, SimGap, RestWalk	MM>1>1>2	Turn Phases ON, set advanced timing parameters
Max2,Ped-Delay,ConflictPhs,Red Rest	MM>1>1>3	"Plus" timing features for enhanced operation by Phase
Concurrency Table, Start Color-Flash Entry	MM>1>1>4	Concurrencies set by initialization, go to "USER" mode to re-define
Call Redirect, Inhibit Phase Calls by Phase	MM>1>1>5	Phases call other phases, Inhibit phase calls by phase
Phase Sequencing	MM>1>2>4	16 pre-defined sequences, go to "USER" mode to re-define
High Resolution Logging	MM>1>9>5	Set up High Resolution (Purdue) data logging
Channel I/O & TS2 SDLC		
Channel Assignment for Phase/OLAP/Ped	MM>1>8>1	Assign Load switch as Phase/OLAP/Ped, mode for Flash by channel
I/O Modes for A-B-C-D connectors (TS1 only)	MM>1>8>6 and MM>1>8>3	Assign custom I/O modes for NEMA TS1 connectors
SDLC Devices (TS2 only)	MM>1>3>1, MM>1.3.4	Define SDLC devices and parameters in cabinet
SDLC Bus Status (TS2 only)	MM>1>3>2	SDLC status by device
MMU Permissive	MM>1>3>3	Set Up MMU permitted channels
ITS Devices	MM>1>3>7	Define hardware for ITS , TS2 Type1, TS2 Type 2 or Model 33x cabinet
ITS Cabinet Status	MM>1>3>8	ITS Status by device
CMU Permissive	MM>1>3>9	Set up CMU permitted channels
I/O User Mapping	MM>1>8>9, MM>1>9>4	Initializing and modifying IO User Maps
Peer to Peer	MM>1>9>3	Set up Peer Controllers (up to 16)
I/O Boolean Logic	MM>1>8>7, MM>1.9>2	Define I/O actions with logic statements
Detectors		
Phase Assignments, Failure Modes	MM>5>1	Assign detector input to phases, define fail parameters for each
Call/Extend/Add-Init/Locking/Vol/Occ	MM>5>2	Assign detector functions for each channel
Det. Type, Sourcing, Occupancy Definitions	MM>5>3	Define input type, Source channel from another input
Ped Detectors	MM>5>4	Define Pedestrian detectors
Preemption		
Turn Preempt Input ON/OFF, define Type	MM>3>1>6	Define channel as Rail, Emergency, or Priority
Set Min, Max, Dwell, and Ped times	MM>3>1>1	Define basic High Priority preemption timing parameters
Set Dwell, Track, Ped and Exit phases	MM>3>1>2	Define phase associations for High Priority operation
Set Low Priority or Transit Preemptions	MM>3>4	Define phase associations for Low Priority operation

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Coordination		
Scheduler Setup	MM>4>2 or MM>4>3	Assigns Days & Months to a Day Plan
Day Plan Setup	MM>4>4	Assigns a sequence of Events within a Day Plan as "Actions"
Action Table Setup	MM>4>5	Assigns Patterns, SpecFunctOutputs, & AuxOutputs to Action #'s
Pattern Setup	MM>2>4	Defines Cycle/Split#/Offset/Sequence# for each Pattern
Split Setup	MM>2>7>Split#	Defines Split Time (Red+Yel+Grn) for each phase, 1 Coord Phase per table
Force a Test Pattern	MM>2>1	Enter pattern# under "TestOpMode", overrides all TBC until reset to "0"
 <p>Adv Scheduler Selects Day Plan → Day Plan Selects Time-of-Day Action → Action Selects the Pattern → Pattern Selects TOD Operation</p>		

Basic Steps for Controller Initialization

MM>1>7	Disable Run Timer
MM>8>4>1	Initialize Database to STD 8
MM>1>3>7	Set up ITS Devices
MM>1>9>4>3, MM>1>8>9>3	Initialize User Map per cabinet
MM>1>9>1, MM>1>8>6	Set Up Modes based on cabinet and User Mapping
MM>1>1>2	Phase Options
MM>1>1>1	Phase Timing
MM>5>1, MM>5>2, MM>5>4	Vehicle & Ped Detection
MM>1>8>1, MM1>8>2	Channel Mapping
MM>1>7	Enable Run Timer