Trafficware - v80 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 Inp ts 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"

Adv Scheduler Selects Day Plan → **Day Plan Selects Time-of-Day Action** → **Action Selects the Pattern** → **Pattern Selects TOD Operation**

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**