LMD40 Menu Driven Pretimed Controller Unit

- The LMD40 controller unit provides menu driven, solid state pretimed and/or actuated control of 48 circuits.
- Thirty-two intervals are available to define the on/off condition of each circuit.
- The unit can be programmed for a variety of sequences, either pretimed or actuated, 2-8 phase operation.
- Ten actuation inputs are available to allow phases to be programmed as both callable and extendible, without switching signal plans.
- Unused actuation time can be added to a selected interval to maintain the cycle length during coordination.

The added time feature can be inhibited by time clock so that during off-peak hours the LMD40 can operate in a variable cycle length mode based on actual demand. In this mode, the unit can be set up to rest at the end of main street green, where it will respond immediately to side street demand.

The LMD40 is a stand alone, shelf mounted unit with a fold down front panel and removable EEPROM card for data memory. The LMD40 utilizes a backlit, 4 X 40 character liquid crystal display operated in a menu format.

Signal sequence information, referred to as the signal plan, is customized to the specific intersection application.

The LMD40 can store 8 unique signal plans and 5 pre-emption sequences.

All data is programmed via the front panel keyboard, including signal plans configuration. Two security codes are available, one for signal plan programming, and one for timing data.

Internal time clock and coordination are standard features and require no special modules or added circuitry.

Specifications

Characteristic	Description
Power	95 to 135 VAC, 60 Hz
Temperature	-30ºF to +165ºF (-34ºC to +74ºC)
Dimensions	10.5" H x 12.75" W x 9.0" D (267 H x 324 W x 229 D mm)
Functions	Coordination: 8 cycles, 4 splits/cycle, 5 Offsets/cycle Offset seeking: Shortway, dwell, interrupter Signal Plans: 8 (can be automatically Switched by actuation imputs) Intervals: 32 Circuits: 48 Actuation: 10 callable or extendible Pre-emption Plans: 5 high priority, 5 low priority (with min re-service, override/fail timers) Flash: Remote or local MUTCD
Internal Clock	Date, time-of-day, day-of-wee, 99 year clock, time base coordination Internal control of CSO, flash, signal plans, call-in report schedules 200 events (a change in CSO=1 event) 15 day programs 10 week programs Automatic daylight savings time adjustment (can be user disabled) 50 holiday programs (exception days)
Interconnect	9 wire 115 VAC interconnect (2 cycle, 2 split, 3 offset, 1 flash, 1 common)
Closed Loop Operation	Standard FSK comm. Module transmits at 1200 baud over voice-grade Bell 202 wire. Fiber-optic module transmits at speeds up to 4800 baud at 850 NM (wave length). The maximum transmission distance using 62.5/125 cable is 4000 ft. (1219 m) On-board, battery back-up to maintain communications to other intersections in the event of power failure at one intersection
Information Memory Card	Removable card stores program data on non-volatile EEPROM
Scheduled Reports (time-stamped)	8 user defined inputs (e.g. UD input 1 could be "cabinet door open") Power on/off's Clock Failure Monitor Status (with comm. Module inserted) Checksum (data memory) failure Planned flash Detector failures (diagnostics determines if system or local det failure) Manual Control Enable (on/off) Data memory load (i.e. the unit was field programmed) Pre-emption activity (in and out of pre-emption 1-5) Flasher monitor (determines and records if flasher fails) NOTE: Each individual function listed can be disabled (no record) or assigned to 1 or 4 schedules; Sched A=3- records, Sched B=100 records, Sched C-

Characteristic	Description
Diagnostics	Standard, tests; RAM, ROM, EEPROM, clock, keyboard, I/O

Features

An RS-232 port is standard. This port can be used for printing, unit to unit data transfer, or interface to an external dial-up or fiber optic modem.

Coordination is responsive to either AC interconnect commands, time clock, from a TDM/FSK modem or fiber-optic data communications link with a system master.

When operating in the time clock mode, cycle, split, and offset commands are selected internally to achieve time base coordination.

Dimming control of individual circuits is also a standard feature. Activated by input, circuits can be programmed (in EEPROM) to be dimmed (+) half wave, or no dim allowed.

Other LMD40 features include; minimum time protection, manual or system control, time clock switching of signal plans, and also hold and force-off input control. Direct telephone dial-up capability is standard (external modem required). Memory storage is provided for various events to be time stamped and logged. Closed loop system operation is available with addition of the optional communications module.

Ordering Information

Description	Catalog Number
Standard LMD40	LMD410
LMD40 with communications	LMD411
LMD40 with communications for MIST	LMD412
LMD40 with fiber-optic communications for Mist	LMD413
LMD40 with fiber-optic communications	LMD414
LMD40 with NEMA A, B, C connectors	Add"N" suffix

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