

Energy Master Series Advanced Lighting Control System



Energy Master Panels

The Energy Master Control System provides 100% digital replacement for traditional time clocks, twist timers and contactor packages. Panels and switches daisy-chain together using category 5 patch cables with RJ45 connectors. The digital timing control (DTC) of the EM1400 Energy Master Series includes many advance features and provides for complete control of up to 256 circuits. Control options are enhanced by the ability of the EM1400 series to accept inputs from a variety of accessory devices including; digital photo sensors, dry contact closures, keypads & switches, as well as peripheral devices such as serial and Ethernet interfaces.

DTC Features:

- 32 independent 365-day schedules
- Astronomical timing of Sunrise and Sunset events
- Large LCD user interface display
- Ten-year battery backup of time-of-day
- Non-volatile system memory stores all programming
- Manual override of each circuit
- On-Board digital contact closure inputs
- On-Board photo sensor input

MASTER PANELS

Enclosure dimensions: 12" w x 18" h x 6" d (8 or 16 relays)
 Enclosure type: Surface mount, hinged cover enclosure with friction catch, NEMA 1
 Bus specifications: Devices: 16 Maximum
 Length: 4000 feet Maximum
 Listings: UL/CUL 916 listed, ETL listed to UL 924 (for emergency circuit use)
 Programming: Via EM1400 clock or via PC with EM I-Manager Software
 Max. humidity: 10% - 90% non-condensing
 Ambient temperature: 0° - 105° F
 Power supply voltage: 120v/277v
 Bus protocol: RS 485 (EM1400 bus)
 Bus connector: RJ45 connectors
 System Inputs: 10 Digital contact closure inputs
 1 Photo sensor input (Use EM14PS photo sensor)

SLAVE PANELS

Enclosure dimensions: 12" w x 18" h x 6" d (8 or 16 relays)
 Enclosure type: Surface mount, hinged cover enclosure with friction catch, NEMA 1
 Listings: UL/CUL 916 listed, ETL listed to UL 924 (for emergency circuit use)
 Max. humidity: 10% - 90% non-condensing
 Ambient temperature: 0° - 105° F
 Power supply voltage: 120v/277v
 Bus protocol: RS 485 (EM1400 bus)
 Bus connector: RJ45 connectors

Model#	Circuits	Switch	Clock Voltage	Amp Rating	DTC	Enclosure
EM1408MC	8	SPST	120/277	30	Yes	NEMA1
EM1416MC	16	SPST	120/277	30	Yes	NEMA1
EM1408SC	8	SPST	120/277	30	No	NEMA1
EM1416SC	16	SPST	120/277	30	No	NEMA1

Contacts can be field configured to independently operated SPDT, or simultaneously operated, or independently pulsed SPDT for contactor and bell ringing applications.

Complies with California Title 24 for multi-level outdoor lighting control.



EM1416MC



EM1416SC