

GENERAL DESCRIPTION

Computer based, self-testing/self diagnostic emergency lighting equipment operating MOONLITE LED™ fixtures and exit signs with all components addressable and integrated throughout, allowing precise monitoring of unlimited numbers of fixtures in multiple locations.

Status reports are available on demand from any location via internet through a cloud-based server. A wide range of fixtures with specialized optics is available for interior and exterior applications. Automated diagnostics and fully addressable fixtures combined with easy access to batteries and long lamp life ensure the lowest possible life cycle costs.



CONSTRUCTION & OPERATION

- Automatic monitoring and self-test diagnostic functions supplied as standard, including battery condition, transfer switch, battery charger and emergency fixture load. Optional network includes addressable fixtures.
- Data transfer via ethernet through a cloud-based server.
- All diagnostic data is available via internet based cloud server, with automatic reporting of all central battery systems in multiple buildings.
- Installations with full network controls allow two-way communication and monitoring via internet of unlimited quantities of central battery panels and fixtures throughout multiple buildings, from any location.
- Standard display includes multicolor diagnostic status LED and Push to Test switch. Optional LCD display provides full operational data on two-line digital display including battery voltage, charge current, load condition, fault monitor and fault description, panel temperature, charge current, date stamp and other information.
- Optional installed printer will produce complete status and history reports on demand.
- Two standard 12V SLA (Sealed Lead Acid) batteries supply a minimum of 90 minutes of emergency power from 100 to 1,000 watts at 24 VDC.
- Batteries are readily available for commercial distributors and can be removed and replaced in minutes, without ladders, lifts or special tools.
- Battery capacity and fixture load combinations can be adjusted to supply emergency power for longer periods, as required.

EMERGENCY LIGHTING FIXTURES

- All models of MOONLITE LED™ fixtures and exit signs are optionally available with individual IP addresses, allowing monitoring of individual lamps in each fixture, with RS485 (Twisted Pair) network, or optional Power Line communication
- Specialized optics produce elongated beam patterns which increases spacing and reduces the total number of fixtures required to illuminate the path of egress.
- A wide range of fixture types and models is available, covering many combinations of interior and exterior lighting requirements, from floor level to ceiling heights of 40 ft or higher. See www.signtexinc.com for details.
- Guaranteed minimum LED life to 70% output in 50,000 hrs provides lowest life cycle costs over a building lifetime.
- LED driver circuits are equipped with two independent power inputs, allowing both emergency and optional night (normal-on) lighting operation.
- More than two lamps are supplied in every fixture, driven via parallel circuits with independent current controllers. This design ensures compliance with NEC Code for emergency lighting, ie failure of any single LED shall not cause failure of any other LED
- LED exit signs have high brightness and uniformity with power consumption of 2 watts.

FIXTURE SCHEDULE

MODEL	CATALOG NO
APPROVAL	JOB INFORMATION



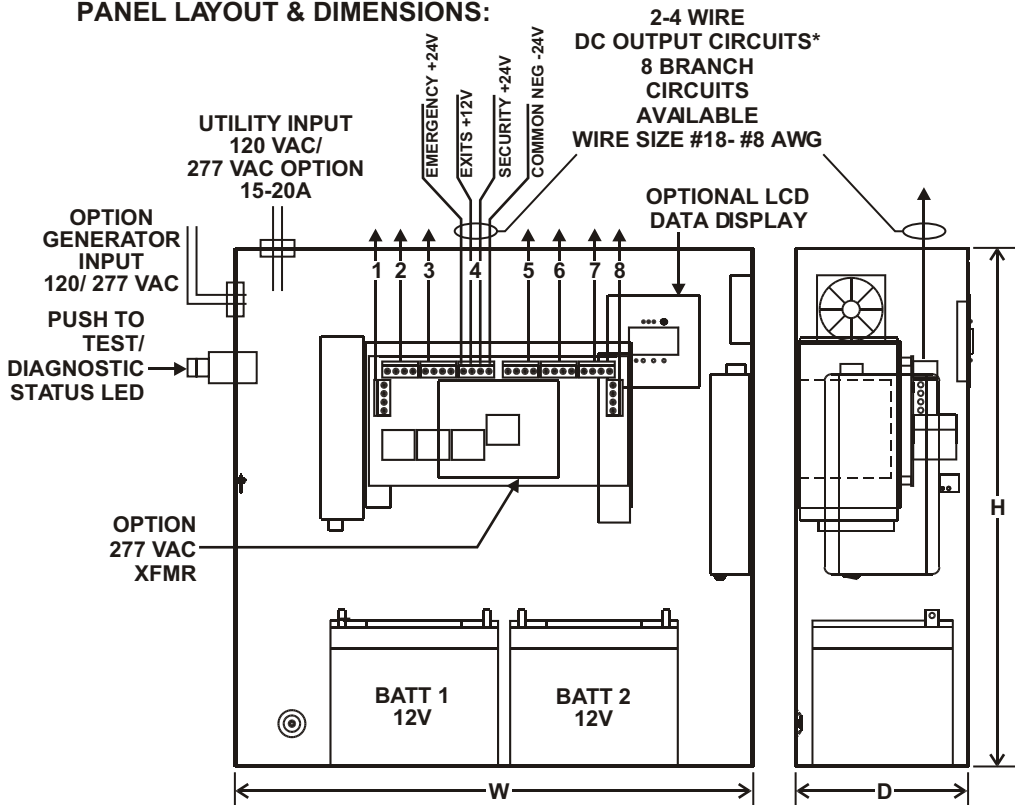
Universal Central Battery with Monitoring and Reporting System (MARS™)

Series CBM

SUGGESTED SPECIFICATIONS:

Install Signtex Series CBM central battery panels with Monitoring and Reporting System (MARS), to supply from 100W to 1,000W emergency power at 24 VDC for at least 90 minutes. Emergency lighting fixtures shall include Signtex MOONLITE LED™ luminaires and exit signs. Optional power for Security or Standby normal-on lighting operation shall be available. Utility power input shall be 120VAC or optionally 277VAC, with optional additional power input from a generator. All systems shall include as standard, automatic self test/self diagnostic functions with production of written reports, as required by NFPA 101 Life Safety Code for computer-based emergency equipment. All CBM systems shall be supplied as standard with individual IP address, allowing comprehensive monitoring of all test functions of an unlimited numbers of panels in multiple locations, including total emergency load for each panel. Optionally, emergency lighting fixtures and exit signs shall be available with individual IP addresses, allowing monitoring of lamp operation in each fixture. Data transfer to the operator shall be via Ethernet through a cloud-based server, or other means as specified by the user.

PANEL LAYOUT & DIMENSIONS:



OPTIONS

CBM.05.13.00

- ABN** RS485 (A-B) fixture network
- PLN** Powerline Communication fixture network*
- LCD** LCD Display Panel
- LCM** Local Circuit Monitor relay control
- CGM** Generator Input Control
- 277¹** 277VAC Control Board Input
- 277S¹** 277VAC Control Board and SEC/STANDBY Power input
- CVR** COVERLITE relay control
- LOK** Key Lock
- REC²** Recess Mount
- 4X³** NEMA 4X rated enclosure

* Available 4th Quarter 2013
¹Panel size may vary from table below. Contact factory for dimensions.
²Limited sizes available. Contact factory for information.
³Suitable for use in sanitary washdown environments.

EXIT LIGHTING

CBM500 & CBM1000

STANDARD: MAX. 40 EXIT SIGNS PER CBM

SELF-TEST DIAGNOSTIC FUNCTIONS

STATUS	LED DISPLAY
NORMAL FULL CHARGE	GREEN ON
NORMAL FAST CHARGE	ORANGE ON
FAILED BATTERY	RED FLASH FAST
FAILED TRANSFER	ORANGE FLASH
FAILED CHARGER	RED FLASH SLOW
FAILED LOAD	GREEN FLASH FAST

EPR WATTS	SEC WATTS	PANEL SIZE H" x W" x D"	WEIGHT WITH BATTS Lbs.
100	60	16 x 16 x 6	40
250	150	18 x 18 x 8	60
500	320	18 x 18 x 8	100
1000	600	24 x 30 x 8	180

ENCLOSURE SIZES SHOWN FOR 120 VAC INPUT. CONTACT FACTORY FOR 277 VAC OPTIONS.

EPR= POWER TO DRIVE EMERGENCY LIGHTING FOR 90 MINUTES

SEC= POWER AVAILABLE FOR CONTINUOUS SECURITY OR NIGHT LIGHTING

*BRANCH CIRCUIT WIRING:

- EXITS ONLY: 2 WIRE SYSTEM
- EM LIGHTING ONLY: 2 WIRE SYSTEM
- EXITS & EM LIGHTING: 3 WIRE SYSTEM
- EXITS & EM WITH NIGHT/ SECURITY LIGHTING: 4 WIRE SYSTEM

DC OUTPUTS:

- EMERGENCY +24V
- EXITS & CVRE +12V or +24V
- 12V: Continuous power in normal mode
- 24V: Emergency power
- SECURITY/ NIGHT LTG +24V
- COMMON -24V

EMERGENCY POWER RATING

FIXTURE	EMERGENCY POWER (EPR Watts)
MOONLITE LED: ALL 10L2 MODELS	10
MOONLITE LED: ALL 15L3 MODELS	15
SINGLE FACE EXIT	2
DOUBLE FACE EXIT	4
COVERLITE REMOTE CVRE20	48
COVERLITE REMOTE CVRE35	85
COVERLITE REMOTE CVRE50	120
COVERLITE REMOTE CVRE75	180

CIRCUIT LOAD CALCULATIONS

- Up to eight circuits are available from each central battery system panel.
- Any Signtex REMOTE model may be connected to the system, within the power limits of the central battery when fixture is operated at EPR (Emergency Power Rating). See load table at right.
- For each circuit, multiply fixture quantity by the corresponding EPR watts to calculate total load.
- Add all circuit loads together to ensure the gross load is no higher than the power limit of each central panel.
- Select the circuit with the highest load and measure its length.
- To calculate loads with multiple circuits, refer to www.signtexinc.com/CBS/Design_Guide.
- Using the Circuit Length/Load table supplied in instructions on our web site, determine the wire size required for this installation.
- To minimize voltage drop in each of the six branch circuits, fixtures should be wired in continuous "daisy chain" configuration. Sub-branch circuits should be kept to a minimum length and load.
- For most installations wire size of #10AWG allows circuit length of 250 ft or more for MOONLITE LED and EXIT LED fixtures. For CVRE fixtures, larger wire size may be required. Check voltage drop calculation tables provided in www.signtexinc.com/CBS/Design_Guide.

ORDERING INFORMATION

EXAMPLE: CBM250T277S

CBM	250	ABN
MODEL	90 MINUTE OUTPUT WATTS	OPTIONS
CBM	100 250 500 1000	SEE ABOVE

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