

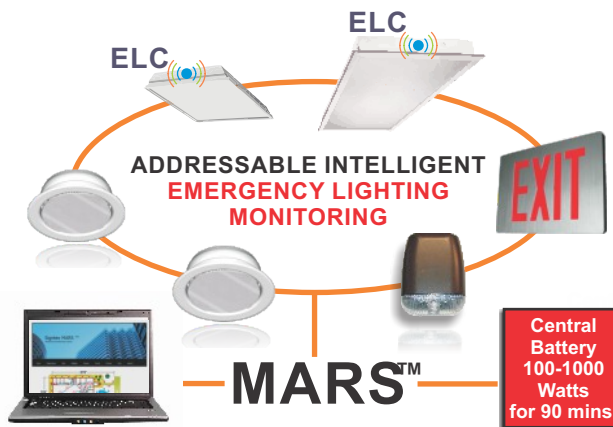
GENERAL DESCRIPTION

Computer based, self-testing/self diagnostic central battery system operating emergency lighting fixtures and exit signs with all components integrated throughout, allowing precise monitoring of unlimited numbers of systems in multiple locations.

Automated diagnostics with FAULT reporting via email combined with easy access to batteries and long lamp life ensure the lowest possible life cycle costs. Status reports are available on demand from any location via internet.

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.
- Diagnostics system automatically records faults and sends to any assigned address via email.
- 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.
- All diagnostic data is available via internet, with automatic reporting of all central battery systems in multiple buildings.
- The password protected MARS system runs on LINUX software, using SSH (Secure Shell) communication protocol, which is highly resistant to viruses and outside hacks.
- 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. Includes multicolor diagnostic status LED and Push to Test switch.
- Optional input from generator allows emergency operation with no startup delay, and batteries remain fully charged from the generator to supply full power if the generator fails.
- Batteries are readily available from commercial distributors and can be removed and replaced in minutes, without ladders, lifts or special tools.
- Up to eight 24V emergency branch circuits with wire size from #18AWG to #8AWG can be installed with 1-hour rated metal jacket type "MC" cable, per NEC 700.9 (d)(1). If required, loads may be rated for Class 2 wiring. Hard conduit Class 1 wiring is not required unless specified by local codes.



GENERAL LIGHTING LUMINAIRES WITH EMERGENCY LIGHTING CONTROL (SERIES ELC)

- Converts ANY type of LED fixture to low voltage emergency operation from central batteries.
- Factory or field installable in the Fire and Electrical Enclosure of UL listed fixtures.
- Compatible with all types of dimming and lighting controls.

MOONLITE LED® EMERGENCY LIGHTING FIXTURES

- A wide range of Moonlite LED® 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.
- Two or more 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 max power consumption of 2 watts.

CERTIFICATIONS & CODES

Listed under UL Standard 924, and meets applicable requirements of CSA C22.2 No. 141, NFPA 101, and NEC 700.12 (c).



FIXTURE SCHEDULE

MODEL	CATALOG NO
APPROVAL	JOB INFORMATION



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

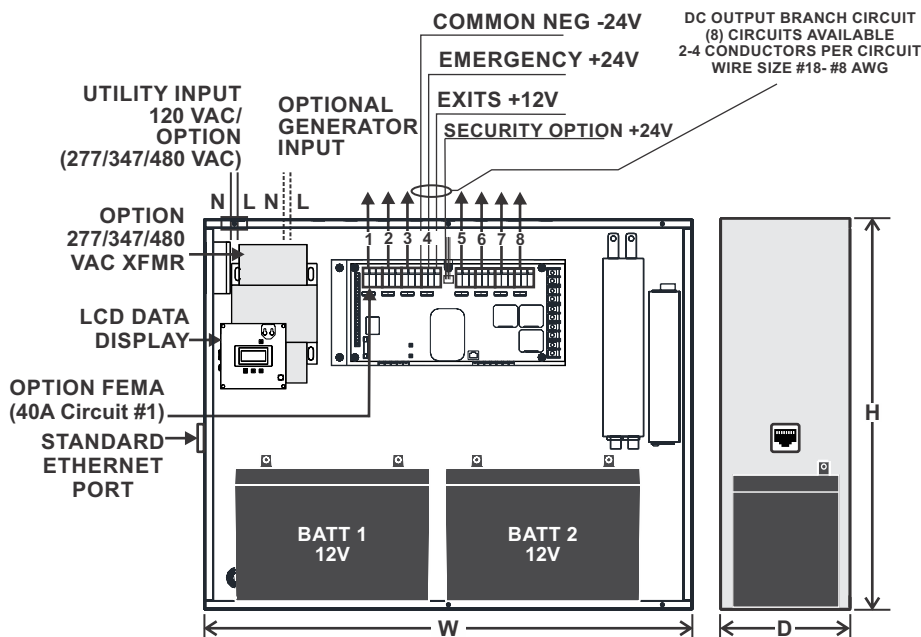
Series CBM

CBM:06.26.14

SUGGESTED SPECIFICATIONS:

Install Sigtex 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. All systems shall include automatic self-test and self-diagnostic functions as required by NFPA 101 Life Safety Code for computer-based emergency lighting equipment. All systems shall produce automatic test reports transmitted by email to up to six (6) addresses. Emergency lighting fixtures may include Sigtex MOONLITE LED® luminaires, exit signs and general lighting LED Luminaires fitted with Sigtex Emergency Lighting Control (ELC). Optional power for switchable night or security lighting operation shall be available. Utility power input shall be 120VAC or optionally 277/347/480VAC, with optional second power input from a generator. All CBM systems shall be supplied with individual IP address, allowing remote monitoring of all test functions including load variation on each emergency branch circuit. Data transfer to the operator shall be via Ethernet local network, a cloud-based server, or other means as specified by the user.

PANEL LAYOUT & DIMENSIONS:



COMPATIBLE FIXTURES & COMPONENTS

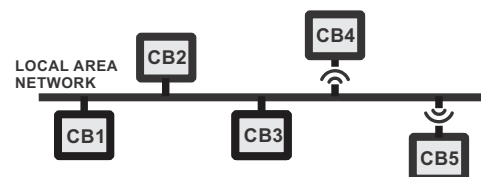
The following is a partial list of fixtures and components that operate with the Series CBM central battery system. Please refer to our PRODUCTS section on www.sigtexinc.com for complete details.

SERIES	DESCRIPTION
ELC	Converts most LED general lighting fixtures to 24V emergency operation.
EMLITE	LED general lighting fixtures fitted with ELC.
Moonlite Exits	LED Emergency Lighting Fixtures Die Cast, Edge Lit, & Universal Thermo- plastic.
CVLRE	Coverlite LED Concealed Emergency
LCM	Local Circuit Monitor (LCM) Inputs. Standard CBM models supplied with (4) LCM relays.

EPR WATTS	SEC WATTS	PANEL SIZE H" x W" x D"	WEIGHT w/ BATT'S (Lbs)
250	250	24 x 24 x 8	70
500	500	24 x 30 x 8	110
1000	1000	24 x 30 x 8	195

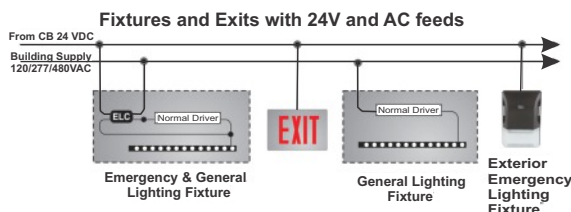
Enclosure sizes shown for 120 VAC input. Contact factory for other AC INPUT options.

EPR = Power to drive emergency lighting for 90 minutes
SECURITY = 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 SECURITY LIGHTING (OPTION S): 4 WIRE SYSTEM



WIRING CONNECTIONS

EXIT SIGNS: YELLOW & BLACK
EMERGENCY FIXTURES: RED, BLACK, & BLUE (IF SEC)
CVLRE: BLACK, YELLOW & RED

OPERATING TEMPERATURES

Standard: 0°C to 50°C
With BH Option: -40°C to 50°C

EXIT LIGHTING

STANDARD: MAX. 40 EXIT SIGNS PER CB

ORDERING INFORMATION

EXAMPLE: CBM500-277-GEN277-S350

CBM			
MODEL	90 MINUTE OUTPUT WATTS ¹	AC INPUT VOLTS ²	OPTIONS
CBM	100 250 500 1000	120 277 347 480	GEN120 Generator Input 120 VAC GEN277 Generator Input 277 VAC S (X) 24VDC Security Lighting Power Supply(X Watts) X = 25, 75, 150, 350, 600, 1000 watts FEMA³ FEMA Fan Operation ASA Active Shooter Alert WIFI WIFI Adaptor replaces RJ45 ethernet cable CIP Cloud Integration Program (See CIP OPERATION description sheet) BH Battery Heater FAN Cooling Fan LOK Key Lock NEM4⁴ NEMA 4X rated Weatherproof enclosure REC⁵ Recess Mount

¹ Output Watts for Extended Run Time = 90 Min Output Watts X 90/ Desired Run Time (Mins)
Example: Output Watts for 2 Hrs from 500W unit = 500 x 90/ 120 = 375 Watts

² Panel size may vary from table above. Contact factory for dimensions.

³ 1000W models only. 2 Hour run time for 1/2 HP DC motor.

⁴ Suitable for use in sanitary washdown environments.

⁵ Limited sizes available. Contact factory for information.



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