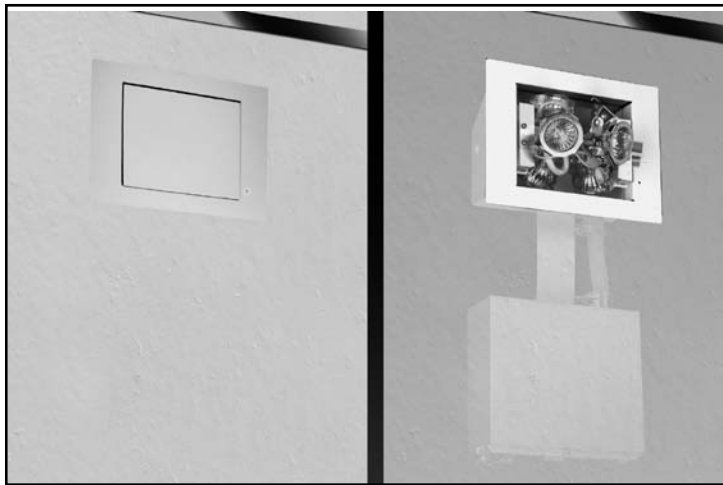




Mini-Phantom SERIES

TYPE: _____
CATALOG #: _____
NOTES: _____



The Next Generation of concealed emergency lighting: smaller size, full retrofit, impressive illumination of the egress.



The **Mini-Phantom Series** from Lightalarms is the next generation of concealed emergency lighting equipment, specially designed for retrofitting in finished walls with a cavity (dry-walls with 4-inch studs). In normal conditions (stand-by) the unit is completely concealed in the wall. In case of power failure the door of the unit flips 180° and exposes the emergency lights (two high-efficiency MR16 lamps) to illuminate the path of egress. At the end of discharge the lights turn off and the door closes by turning another 180° in the same direction, driven by a patent-pending, energy-storage circuit. One self-powered unit equipped with 2 x 20W high-lumen MR16 halogen lamps illuminates a six-foot wide path of egress up to 70 feet in length or 75 feet center-to-center.

Features

- Easy to retrofit in finished walls: the unit slides in through an 8.25 by 5.75 inch hole
- No back-box needed to pre-install
- Fully automatic operation: the unit door opens upon loss of AC power and closes when the power is returned or at the end of battery discharge
- Input: Standard AC input 120/277Vac
- Output: 12Vdc 40 W (self-powered model)
- Battery: choice of sealed Lead-Calcium, Nickel-Cadmium or Nickel-Metal Hydride
- Charger: micro-controller driven, temperature compensated, high-precision, fast recharge
- Illumination: equipment with 2 x 20W MR16-H lamps covers 70 to 75 feet of path of egress
- Remote AC unit: direct connection to 120 or 277Vac power generators
- Emergency lights: high-efficacy MR16 halogen lamps; power range from 2x12 to 2x50 Watts
- Warranty: five-year limited warranty on electronic circuitry and motor
- Patent-pending design for ease of installation

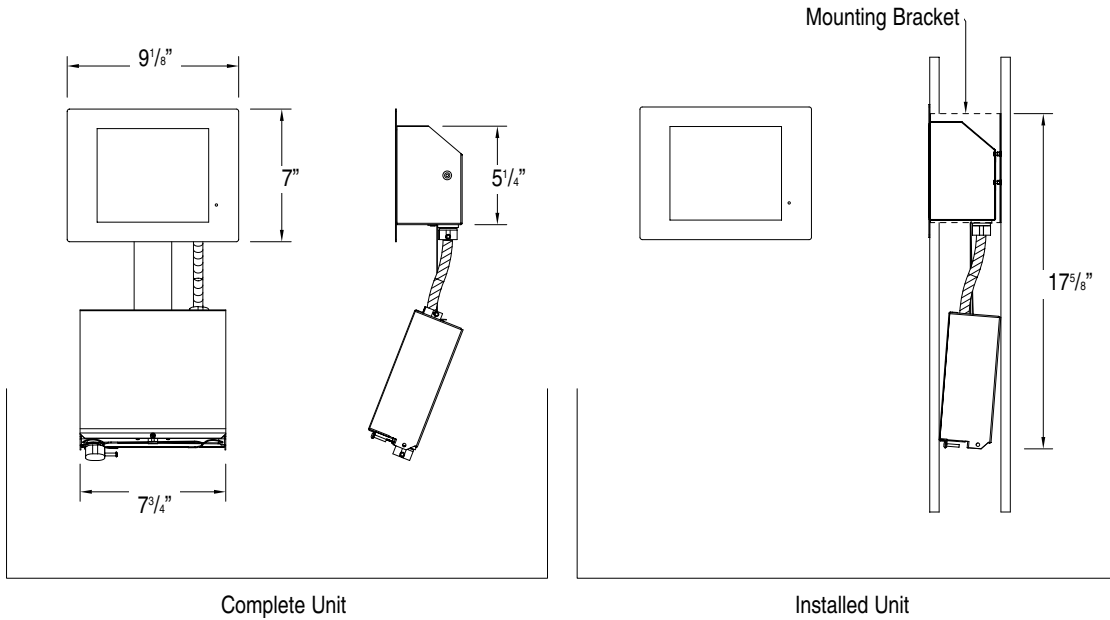
Typical Specification

Supply and install **Lightalarms Series Mini-Phantom**: MPH____. The unit shall be designed to be completely concealed in walls with a cavity. The equipment shall consist of a metal housing containing two modules joined by a flexible bracket and electric conduit. One module contains the battery, charger circuitry and electrical connection box; the other module contains the emergency lights installed on the back of a door able to rotate several turns of 360°. The unit equipment shall be completely concealed in the wall, after the installation through a rectangular opening not larger than 8.25-in by 5.75-in. In stand-by mode, the only visible parts of the unit shall be the flat door and trim plate, coated with a highquality off-white finish that can be customized on site with paint or other suitable wall covering. Upon a power failure the unit will expose the emergency heads by rotating its door 180° and then will power the lamps. At the restoration of the AC power or at the end of the battery discharge, the lamps will turn off and the unit will retract the heads by rotating the door 180° in the same direction. The unit shall not require the presence of AC power in order to close the door and conceal the lights. The door of the unit shall be easy to force-turn (open or close) by hand, in any rotation direction. The light source shall be 12V MR16 halogen lamps of specified wattage and light output. The unit shall supply the rated load

for a minimum of 90 minutes or until the battery is discharged to 87½ % of its nominal voltage (whichever duration is longer). The charger circuitry shall utilize a micro-controller IC that samples the battery in relation to the ambient temperature, state of charge, and input voltage fluctuations. The charger shall be current limited, temperature compensated, short-circuit proof, and reversepolarity protected. The circuit will charge in accordance with the UL924 requirements. The unit shall be furnished with a recessed, illuminated push button serving as test switch and status indicator light. Improved diagnostic: the unit will come complete with the **Lightalarms** series of improved diagnostic micro-controller circuitry that will ensure the equipment readiness and reliability by continuously monitoring every critical function of the unit. If a component failure occurs, the pilot light located on the front of the unit will change color from green to red and will flash indicating a fault. A detailed diagnostic legend shall be available on the back side of the door and shall provide fault identification (battery, charger circuitry, lamps) for the maintenance personnel. The self-test shall simulate a power loss for one minute monthly, 30 minutes every sixth months, and a full 90-minute test every 12 months. The equipment shall be **Lightalarms** catalogue number: _____.

Specifications For Mini-Phantom Series

Dimensions are approximate and subject to change.



Power Consumption Chart

Model	AC Input	Maximum		Stand-By (Ni-Cd, NiMH)*	
		Input Current	Input Power	Input Current	Input Power
MPH_40	120 Vac	0.25 A	30 W	0.1 A	11 W
	277 Vac	0.12 A	30 W	0.05 A	11 W
MPHG	120 Vac	0.95 A	110 W**	-	-
	277 Vac	0.45 A	110 W**	-	-

* Stand-by power consumption is 50% lower for Lead-Calcium batteries

** Maximum power when equipped with 2 x 50W lamps

Unit Rating Chart

Model	Watts to 87.5% of rated battery voltage*			
	1 1/2 hrs.	2 hrs.	3 hrs.	4 hrs.
MPH_40	40	30	24	-

* National Electrical Code Specification

Unit Warranty*

Unit carries a 5-year full warranty.

Battery Warranty*

Sealed Nickel Cadmium Battery has a 10 year life expectancy and carries a 5-year Full Warranty, plus a 5-year pro rata warranty.

*Subject to proper installation and maintenance.

Ordering Information

Example: MPH40-2(20)DL

	Series	Battery type	Unit Capacity	AC input	Lamp Wattage (12V MR16)	Options
Battery Unit	MPH	M = Lead-Calcium	40 = 12V, 40 watts	Blank = 120/277 Vac	-2 (12) = 12 watts each head	ID = improved diagnostic
		N = Nickel-Cadmium			-2 (20) = 20 watts each head	IDNA = improved diagnostic, non-audible
		H = Nickel-Metal Hydride			-2 (20H) = 20 watts, high lumen output	T1 = time delay 5 min
						T2 = time delay 10 min
						T3 = time delay 15 min
						DL = damp location (only MPH40, MPH40)
AC Remote Unit	MPH	G = Remote AC generator	Blank = max. 100W	1 = 120 Vac	-2 (12) = 12 watts each head	DL = damp location
				2 = 277 Vac	-2 (20) = 20 watts each head	
				3 = 347 Vac	-2 (35) = 35 watts each head	
					-2 (50) = 50 watts each head	
					-2 (20H) = 20 watts, high lumen output	
					-2 (35H) = 35 watts, high lumen output	
		-2 (50H) = 50 watts, high lumen output				



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