



The HDZ Combo



PROJECT: _____
 FIXTURE TYPE: _____
 LOCATION: _____
 CONTACT/PHONE: _____



SPECIFICATIONS: INTERNAL

The HDZ COMBO features a sealed valve regulated lead acid battery that provides a minimum emergency duration of 90 minutes. Standard features include low voltage disconnect, AC lockout and brownout protection.

SPECIFICATIONS: EXTERNAL

The HDZ COMBO housings are constructed from corrosion resistant, copper-free cast aluminum. The quick access thread on cover allows for trouble-free installation and reduces general maintenance time. A one-way stainless breather provides proper and effective unit ventilation. Internal test switch and monitor LED are standard.

HAZARDOUS CODE CHART

Location	Code / Designation
Class I, Division 1, Group B	C1D1GB
Class I, Division 1, Group B, C & D	C1D1GBCD
Class I, Division 1, Group C & D	C1D1GCD
Class I, Division 2, Group B, C & D	C1D2GBCD
Class I, Division 2, Group C & D	C1D2GCD
Class II, Division 1, Group E, F & G	C2D1GEFG
Class II, Division 2, Group E, F & G	C2D2GEFG
Class II, Division 2, Group G	C2D2GG
Class III, Division 1 & 2	C3D12

NOTE: Dimensions will vary depending on configuration & rating classification.
 Contact factory for details



ORDERING INFORMATION

Series	Operation	Pb-A (Capacity)	Ni-Cd (Capacity)	Hazardous ¹ Code	Emergency Heads	# of Lamps	Lamps	Exit	Options
HDZ-C	12VDC	36 (12V)	42 (12V)	See hazardous code chart above	1XF (single head)	1 (single)	See lamp selection	1EX (single face)	SD (self-diagnostic)
	24VDC	60 (12V)	90 (12V)			2 ² (double)	on next page	2EX (double face)	NC ³ (nickel-cadmium battery)
		120 (12V)	130 (12V)				TD ⁴ (time delay)		
		140 (12V)	100 (24V)				TRN ⁵ (transfer panel) WG (wireguard)		

- NOTE 1: Must be specified by Class, Division and Group category as per the applicable code(s) and standard(s).
- NOTE 2: LED is available in single lamp only.
- NOTE 3: Must select NC from options and indicate wattage/voltage from Ni-Cd column.
- NOTE 4: Specify when ordering; 5, 10, 15 min. 10 min standard.
- NOTE 5: Comes standard in HDZ combo units and provides 4W to the exit (see next page for details).

EXAMPLE: HDZ-C-1260-C1D1GB-1XF-120W-1EX



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EMERGENCY HEADS

The HDZ COMBO series utilizes a high-efficiency two stage charger providing a fully automatic constant charging current with low voltage disconnect protection. All components used in the circuitry are temperature compensated. The charger also has brownout and short circuit protection. Charger status is easily determined via a dual diagnostic, internal LED display which indicates AC/ON and High Charge. An internal dust tight push button test switch allows maintenance personnel to quickly determine the operational status of the unit and lamp load.

SPECIFICATIONS: ELECTRICAL

BATTERY: The HDZ COMBO series is designed with a maintenance free, sealed valve regulated lead acid battery that provides a minimum emergency duration of 90 minutes (for the listed rating). Recharge time of the battery is forty-eight [48] hours The operating temperature is from 50°F up to 104°F (10°C up to 40°C).

CIRCUIT: The HDZ COMBO series utilizes a high-efficiency two stage charger providing a fully automatic constant charging current with low voltage disconnect protection. All components used in the circuitry are temperature compensated. The charger also has brownout and short circuit protection. Charger status is easily determined via a dual diagnostic, internal LED display which indicates AC/ON and High Charge. An internal dust tight push button test switch allows maintenance personnel to quickly determine the operational status of the unit and lamp load.

SPECIFICATIONS: MECHANICAL

The HDZ COMBO series housing is constructed from corrosion resistant, copper-free aluminum. Featuring a threaded cover that allows for trouble free installation and reduced maintenance time. External mounting feet provide simple and secure installation. Exact dimensions will vary depending on the unit configuration and rating classification.

SELF-DIAGNOSTIC

The Mule self-diagnostic system automatically performs one (5) minute discharge test monthly and two (90) minute discharge tests every 6 months, 24 hours apart. This tests both full battery and recharge capability as required by code. Information is communicated simply and intuitively to maintenance personnel via a single multi-color LED.

- Red: Battery or Circuit Malfunction
- Yellow: Lamp Malfunctioning
- Green: Normal Operation

TRANSFER PANEL

Hazardous exit signs are supplied with one DC lamp only. This lamp will be illuminated only on DC power. If you require your exit to be illuminated under both AC and DC conditions, you will require a transfer panel. Transfer panel is standard when ordering a as a combo. See chart below:

Series	AC	DC	Wattage	Enclosure
TRN	120V	24VDC	25W	Internal

LAMP SELECTION

	12V	24V
Halogen (H)	12W, 20W	N/A
LED	4W	4W

MODEL RATING GUIDE

Model	Voltage	Wattage			
		90min	120min	180min	240min
HDZ-C	12	13	10	7	5
HDZ-C	12	29	22	15	11
HDZ-C	12	36	27	18	14
HDZ-C	12	48	36	24	18
HDZ-C	12	60	45	30	23
HDZ-C	12	72	54	36	27
HDZ-C	24	57	43	29	22
HDZ-C	24	72	54	36	27

[1]NOTE: Not available for all Class and Division ratings. Contact factory for details.

TEMPERATURE CODES

Temperature Codes Class 1, Div. 1		
Lamp	4W LED	20W Halogen
T Code	T6	T4A

Temperature Codes Class 1, Div. 2		
Lamp	4W LED	20W Halogen
T Code	T4A	T1

WARRANTY

The HDZ COMBO comes with a 3-year factory warranty. Lamps are not covered under the warranty. Deliberate damage, misuse, improper installation effectively cancel the warranty.