

HRN Range – Technical Specification



The HRN range of 3 hour duration Emergency Lighting Conversion kits are designed to suit multiple 4-pin fluorescent lamp wattages (see lamp Compatibility Chart) & circuits. The unit has the benefits of a 4 Pole changeover relay - for total isolation of the control gear from the emergency inverter in the event of a test or emergency condition. An additional 5th pole HF relay - with built in time delay to ensure the interconnected HF ballast does not see an open circuit condition when the fluorescent lamp is used in the emergency condition. Prevents ballast 'Shut Down' or failure. DDP - Deep discharge protection circuit on battery completely cuts off battery load at end of discharge. Constant current charger circuit - maintains battery at peak condition to provide 3 hours emergency duration. Changeover operation from mains to emergency operation occurs between 60 and 85% of mains voltage in accordance with BS EN 60598-2-22. The units are supplied complete with a suitable battery & a Green Charge LED (see Kit Specification Chart).

Technical Details

	HRN/3	HRN/4	HRN/5
Input Voltage	220-240 Volts AC – 50/60 Hz		
Power Rating Watts	4.7 Watts		
Emergency Duration	3 Hours		
Battery Type	4.5Ah Nickel Cadmium		
Battery Voltage	3.6 Volts	4.8 Volts	6.0 Volts
Charge Current	200mA		
Recharge Time	24 Hours		
Cut-Off Voltage	3.0 Volts	4.0 Volts	5.0 Volts
Discharge Current	1.05 Amp		
Ambient Temperature	0°C to +50°C		
TC Point	Case Side (Centre)		
TC Max. Temperature	70°C		
IP Rating	IP20		
	Dimensions		
Module Size L x W x H	165mm x 45mm x 29mm (FC 155mm)		
Battery Size L x W x H (Type T1)	221x37x37mm (FC 205mm)	280x37x37mm (FC 265mm)	340x37x37mm (FC 325mm)
Overall Weight	0.73 Kg	0.83 Kg	1.0 Kg

HRN Remote Enclosure

Remote enclosures are available for the above units where the conversion kit cannot be housed integrally within the luminaire. The units are supplied with a 0.8mm wiring loom (0.4m black PVC sleeved).

Enclosure Dimensions: 240mm x 81mm x 73mm (fits through a Ø 100mm aperture)
Weight Kg: Add 0.2Kg to overall weight of required unit above.



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