

LED EXIT SIGN WITH AUTOMATIC TEST

HXS SLIM SERIES - WALL MOUNTING, 180MM



FEATURES

- IEC 62034:2016 automatic test system for HK FSD requirements
- Slim design with 4 mm bezel and 20 mm thickness
- Nichia LEDs with 15 years life at L70
- System power only 2 W
- Full solid-state design — no mechanical relays
- Constant brightness control for AC and DC operation
- Chemistry-aware charging for LiFePO4, NiCd and NiMH
- Precharge recovery for deeply discharged batteries
- Thermal charge protection with automatic resume
- Deep-discharge shutdown for battery protection
- Isolated low-voltage test switch
- Infrared remote for brightness control, changeover test, and Autotest
- Dual LED system status indication (optional LCD status module)
- Optional fire alarm input flashes the LED in response to external fire alarm signals
- Optional Wi-Fi connectivity enables centralized control and reporting of status, faults, and self-test results

STANDARD OPTIONS

- IR Remote
- Fire Alarm Input Module
- LCD Display Module
- WiFi module

AUTOMATIC TEST FUNCTIONS

- Automatic initiation of ATS
- Commissioning Test
- Functional Test
- Duration Test

LED INDICATIONS

STATUS	FLASH PATTERN
Charging	
Battery Full	
Self-testing	
Discharging	
Battery Fault	
Lamp Fault	
Charger Fault	
Battery EOL	

steady
 flashing
 breathing



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EMERGENCY LIGHTING TESTING STANDARDS

IEC 62034:2016 is the international standard defining automatic test systems (ATS) for self-contained emergency luminaires.

HK FSD PPA/104(A) (5th Revision) adopts part of this standard. Key requirements include:



- Once every month a **functional test** in accordance with BS EN 50172 not longer than 10% of rated duration should be carried out.
- Once every twelve months a full rated **duration test**, should be carried out and the results should be entered in a register.
- The luminaire should be functioning properly to maintain the stipulated lighting level and the normal power supply should be restored after the test.
- If automatic testing devices are used, the above item a – c should be complied with.



* TECHNICAL GUIDANCE

Application of BS 5266:2016 and BS EN 1838 2013 for Emergency Lighting in Hong Kong, May 2021

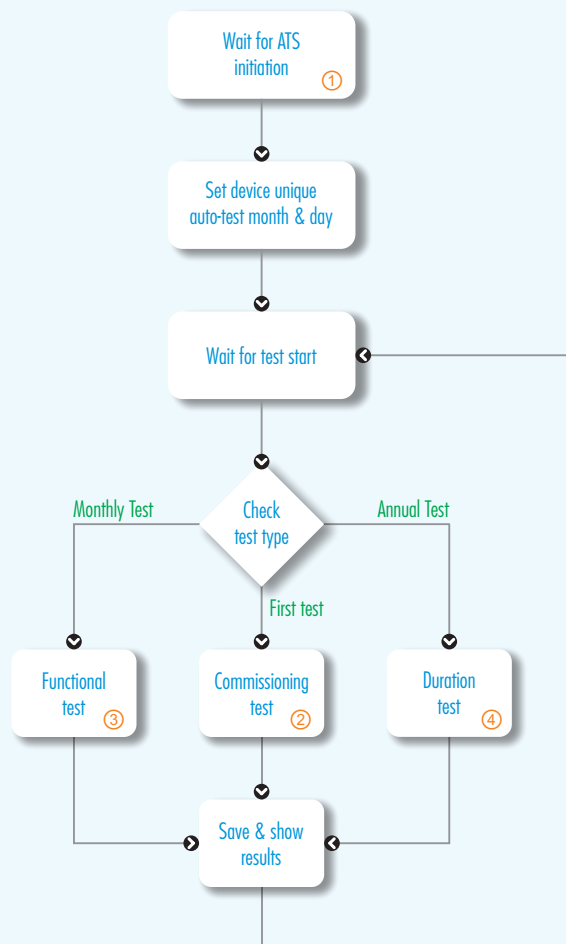
FSD Circular Letter No. 5/2021

Requirements for Self-contained Luminaires Emergency Lighting Systems PPA/104(A) (5th Revision)

Our ATS is designed in full compliance with IEC 62034 and therefore also meets all applicable requirements under HK FSD PPA/104(A) (5th Revision). This ensures:

- No manual testing is required under normal operation
- Automatic compliance with both international and local regulations
- Direct acceptance for use in licensed / registered premises

AUTOMATIC TEST SYSTEM FLOW



- Automatic initiation of ATS** Self-test system is automatically started when mains supply has not been interrupted for 7 days.
- Commissioning test** This is the first duration test. It is required within a month of the installation
- Functional test** A 30 second monthly test to check the functionality of the emergency unit, the batteries, charger and LED lamp.
- Duration test** The annual full rated duration test checks whether the batteries are able to ensure the required operating time of rated discharge time.

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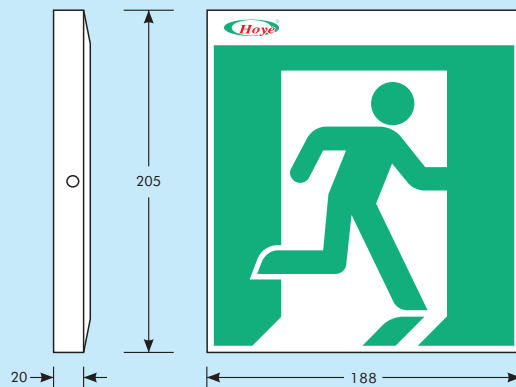
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TECHNICAL DATA

Rated supply voltage	220-240 VAC
AC voltage range	198 - 264 V
Supply frequency	50-60 Hz
Circuit power	Charging: 3.5W, Standby: 2.0W
Changeover time	<0.5 second
Battery charging time	<6 hours
Rated discharge time	3 hrs
Power factor	>0.9
Lumen Maintenance (L70)	15 years
Battery cut-off voltage	LiFePO4: 2.5V, NiCd/NiMH:1.0V
Ambient temperature (ta)	0 ... +50°C
Max. casing temperature (tc)	55°C
Mains voltage changeover threshold	as per EN 60598-2-22
Type of protection	IP20
Battery type	LiFePO4, NiCd/NiMH as option
Luminance	250 cd/m ²
Warranty	5 years

DIMENSIONS



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EXIT SIGN LEGENDS



ORDERING INFORMATION

	H	X	S	-	W	2	S		-		
Product Series											
HXS: LED Exit Sign, Slim Series											
Mounting Type											
W: Wall mounting											
Panel Width											
2: 180mm											
Illuminated Side											
S: Single side											
Legend Code											
A, B, C: Refer to Exit Sign Legends											
Battery Type											
L: LiFePO4, default type, can be omitted											
N: NiCd											
M: NiMH											
Optional Module											
F: Fire alarm input module											
L: LCD display module											
W: WiFi module											

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