



HXS AUTOMATIC TEST — USER GUIDE

This automatic testing system runs scheduled checks. You do not need to start anything for normal use.

For status light patterns, see the **HXS LED Indicator Guide**.

Start here

Step	Action
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| 1 | Install the unit on site. Connect mains power. |
| 2 | Leave mains on for 7 days. Automatic tests start only after 7 days of continuous mains. |
| 3 | A mains break restarts the 7 days. Lamp or battery reconnect does not. |
| 4 | After the 7 days, the unit waits a further random period of up to about four weeks. Each unit waits a different length, so units installed on the same day do not all test at once. Then automatic tests begin. |

No setup is needed for automatic tests.

Normal days

Leave mains connected. The lamp stays lit at the set level.

Event	What happens
First test	Commissioning test. Full duration, runs once after the install wait and random delay.
Functional test	Every 28 days. Lamp switches to battery and runs at emergency brightness for about 30 seconds, then back to mains.
Duration test	Once a year. Lamp switches to battery and runs at emergency brightness up to the rated duration.
Mains fails	Lamp switches to battery in emergency mode. Unit returns to charging when mains returns. A running automatic test stops and runs again later.
Automatic test postponed	Unit postpones when conditions are wrong, usually the battery is not full or a recent fault or a recent mains failure. Shows postponed in the LED Indicator Guide and tries later.

Manual checks

Control	How	Result
Test button	Press and hold	Lamp switches to battery and runs at emergency brightness while held. Release to return to mains.
Remote DC Test	Press once while on mains	Lamp switches to battery and runs at emergency brightness for about 5 seconds. Press again to end early.
Remote Plus / Minus	Press once	Lamp one step brighter / dimmer.
Remote Normal	Press once	Lamp back to default level.

Manual checks are not the scheduled automatic tests.

Faults

A historical fault means a past test failed. It stays shown until the unit checks the replacement part and the check passes. See the LED Indicator Guide, AutoTest historical faults.

Have the faulty part repaired or replaced first, then reset with one method:

Method	Steps
Remote	1. Unit must be connected to mains power or in a fault state, not in emergency or mid-test. 2. Press key 2 three times. The gap between each press must be within 1 second. 3. Any other remote key cancels the sequence. 4. The unit runs a battery and lamp check. The fault clears only on a pass.
Reconnect	1. Reconnect the fixed lamp or battery firmly. 2. The unit runs the same check.3. Lamp faults clear on a passing lamp check. Battery end of life clears on a passing battery check.

Notes:

- With no historical fault, the remote sequence does nothing.
- A failed check keeps the fault shown. Fix the hardware and try again.
- In an unrecoverable fault, test button press and release only retries the hardware check. It does not clear a historical fault.
- Do not remove the battery or lamp during an automatic test.

Background: standards

IEC 62034 is the international standard for automatic test systems in battery powered emergency lighting. It asks the light to run its own checks and to show failures clearly, because manual testing is often skipped.

It asks for a short functional check at least monthly (not longer than 10 percent of rated duration), a full duration test at least yearly, a commissioning test at first use, a visible result for every test, and sensible behaviour on mains failure.

Hong Kong FSD asks for the same kind of checks. FSD Circular Letter No. 1/2006, PPA/104(A) 4th Revision, clause 14 for self-contained luminaires asks for monthly tests within one quarter of rated duration, six-monthly tests of one quarter duration, a full duration test every three years, and results kept in a register.

Use only the approved battery and lamp. Statutory inspection and register entries required by your local authority still apply.