

# ESSER

by Honeywell



## **SELF-TEST TECHNOLOGY** **Revolutionizing fire protection**



# Transforming fire protection: minimum maintenance, maximum efficiency

## Self-Test technology - beginning of a new era

Honeywell's patented fire and smoke detectors self-test technology automates and digitizes the mandatory but previously time-consuming testing process. This improves the efficiency and safety of vital life-saving systems—for new installations and existing ones.

## ESSER by Honeywell self-testing detectors revolutionize the inspection and maintenance of fire alarm systems

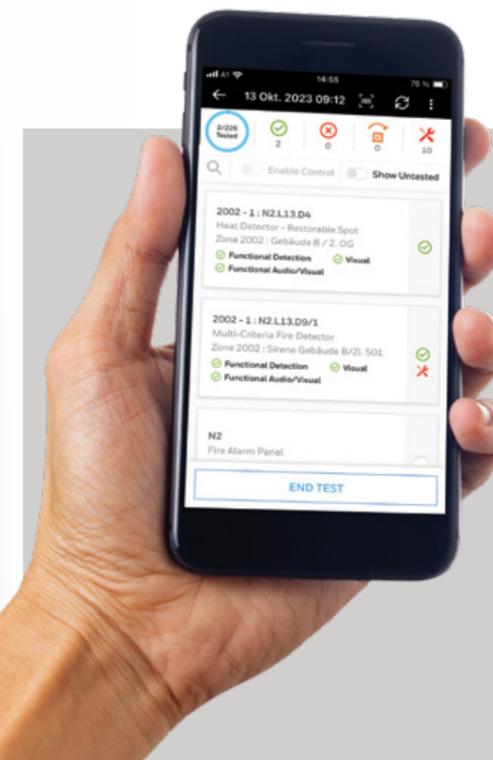
Manual testing procedures are time-consuming and disruptive to operations and building occupants. Of the total testing time of an average fire alarm system, technicians using conventional methods need most of the time just to test the smoke and heat detectors.

To do this, engineers must trigger each individual detector with test gas or heat to ensure compliance, which can be challenging. They repeatedly encounter problems during this process: access to locked or occupied rooms may be restricted, areas such as surgery rooms, clean rooms, or security centers require special clearances or clothing; detectors in suspended ceilings and floors or at great heights are difficult to reach.

The self-test improves engineer efficiency and productivity. Automated processes are low-intrusive, allowing inspections to be carried out during normal working hours rather than evenings or weekends.

The Self-Test does not require access to locked rooms or unreachable detectors to perform functional tests. Only a quick visual inspection is necessary. With the Honeywell Connected Life Safety Services (CLSS) app, the technician's toolbox is reduced to his mobile phone. This means that technicians no longer have to carry extensive testing tools with them and can keep disruptions to a minimum.

CLSS captures all self-test activities, including functional tests and visual inspections with accompanying photos and comments. All reports are generated at the touch of a button, so manual records are unnecessary. In addition, Honeywell Connected Life Safety Services (CLSS) puts connectivity at the heart of fire protection, providing real-time visibility for timely and accurate decisions.



## What is Connected Life Safety Services (CLSS)?

CLSS is Honeywell's cloud solution for digitally connecting fire alarm systems at any location. CLSS monitors daily events in a building's fire alarm system in real time, immediately notifies users, supports regular maintenance measures and generates standard-compliant reports on registered mobile devices or stationary IT systems. This prevents information loss and provides valuable records for troubleshooting and analysis.

# Self-Test: ground-breaking advancements in fire safety technology

Self-Test detectors automatically introduce small amounts of smoke and heat to test the operation of the optical and thermal sensors. Build in link to the CLSS app verifies that engineers have been within visual inspection range of each Self-Test device and allows them to quickly check or update the device details as part of the smart inspection and commissioning process



## Innovative technology

ESSER by Honeywell Self-Test detectors feature an internal module that generates smoke and heat, enabling automatic functional testing of both the optical and the heat sensor.

Anti-masking technology ensures that the detector's smoke entry points are clear and not covered.

Additionally, the detectors automatically connect to the CLSS app via an internal Bluetooth Low Energy Emitter (BLE), allowing engineers to easily locate and visually check the device to ensure compliance.

The new Self-Test detectors are fully compatible with the standard detector base, enabling easy and convenient replacement of existing fire detectors with the new technology.



## Optimized safety and compliance

Protecting lives and buildings is crucial. Self-testing supports optimal safety and compliance with European and local country fire system standards. These standards require functional tests and visual inspections of each detector in a fire alarm system during commissioning and mostly once a year.

Self-Test detectors automate these processes, allowing for quick testing across multiple devices and ensuring that all sensing elements within detectors are properly tested. This also includes the heat sensor part, which is often neglected during inspections.

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## Minimizing disruption

Conventional testing methods frequently pose significant risks because alarm notifications to the fire brigade are often disabled. Additionally, individuals in the impacted fire areas—or even throughout

the entire building—may remain uninformed for extended periods. This often requires the presence of Firewatch staff to monitor the building and manually raise the alarm in the event of a fire.

With self-testing, only loop or zone currently being tested is switched off and is immediately available for fire detection again after the test. This reduces system downtime and eliminates the need for Firewatch on other loops or zones.



## Low impact testing

Access to locked, occupied or special rooms, such as surgery rooms, can be problematic during testing.

Self-Test requires no physical access to the detector to perform functional tests, so it minimizes the impact on the building and its occupants.

Additionally, Self-Test eliminates the need for ladders, scaffolding and scissor lifts to reach hard-to-access detectors, avoiding potential safety hazards and reducing the need for testing outside of business hours.

Obstacles such as locked rooms, hard to access areas, false floors and high ceilings can often lead to detectors being untested and covered, risks potentially missed. Self-Test has been developed to overcome these obstacles, allowing even the largest of network systems to be tested in a fraction of the time while ensuring compliance.

## Remove obstacles and risks



# Next level inspection: smart, seamless, compliant

The self-testing series of detectors represents a significant milestone in the field of fire protection. With innovative Self-Test technology visual inspections are now easier and more efficient than ever.



## Boosting efficiency

The intuitive CLSS app provides a user-friendly interface for interacting with the fire alarm system.

The app offers a wide range of testing options tailored to the specific needs of the building, emphasizing efficiency and speed.

Large-scale device testing can now be completed in a fraction of the time, streamlining the process and enhancing overall fire safety. Capture essential events, test results and visual inspection information with the CLSS app, enabling engineers to identify necessary corrective actions more effectively.

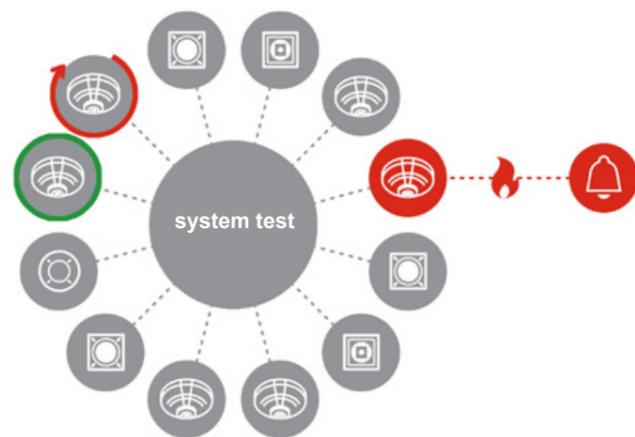
## Complete the visual inspection with ease

- Self-Test detectors have a Bluetooth Low Energy (BLE) transmitter
- CLSS app shows which detector is closest to the current location
- Engineers can assess the environment and detector information to complete the compliant visual inspection in the CLSS app with a swipe of a finger.
- The BLE beacon will verify that engineers have been within visual inspection range of the device.
- In case of a compliance issue, engineers can comment, take pictures and set the visual inspection to failed
- Information for the inspection report is stored in CLSS cloud



## Self-Test step-by-step

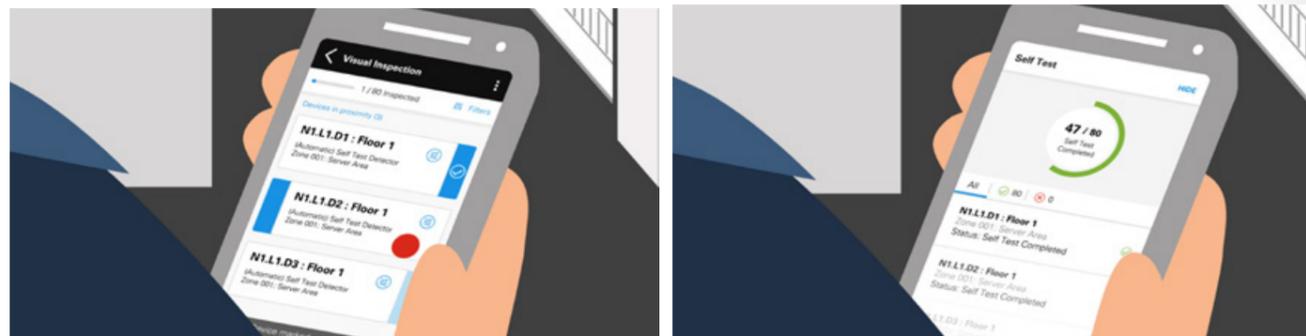
- Engineers can start Self-Test for one or several detectors, a complete loop, panel or whole system via the CLSS-App
- System performs Self-Test automatically; one detector after each other, simultaneously across different loops and panels
- Smoke is generated and introduced into the detection chamber
- Small fan expels the smoke through the detector's smoke entry points, ensuring detector is not covered
- In case of heat detector, heat is generated to test the heat sensor
- CLSS app reports the success of the test or failure in case of any sensor defect or covered detector
- Information for the inspection report is stored in CLSS cloud



The Self-Test technology in the well-known IQ8Quad detector combined with the reliable fire protection solutions from ESSER by Honeywell creates new future-proof possibilities for both existing and new fire alarm systems.

ESSER is pursuing its mission of creating a safe environment for people and being the experts for safety in buildings.

Discover a new era for fire safety technology with Self-Test, the winner of the prestigious Edison Innovation 'Safety & Security' gold award.



## A new era of digitised maintenance for fire safety systems

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