



# testifire<sup>®</sup>

MULTI-STIMULUS DETECTOR TESTER



## DESCRIPTION

**Testifire** is the world's first 3-in-1 detector tester with optional communications module and audit trail facility. Its design enables fast and efficient testing of Smoke, Heat or CO fire detectors and, with the ability to test with these stimuli sequentially or simultaneously, it is also the perfect tool for testing multi-sensor detectors.

Smoke, Heat and CO stimuli are all created in the single unit that is Testifire. There are no pressurized canisters of gas and stimuli are generated as required using processes fueled by replaceable capsules.

Testifire is the result of several years of technological development and since launch, has continued to develop in response both to market feedback and new materials and technologies. By far the most advanced tester available, Testifire is UL certified and approved by leading detector manufacturers from around the world.

## INTERNATIONAL STANDARDS

Testing with Testifire aids compliance with codes and standards globally.

"The detectors shall be tested in place to ensure smoke entry into the sensing chamber and alarm response" *NFPA 72 2002 Table 7-2.2 (Test Methods) 13.g.1*

"Each smoke detector shall be tested for operation by introducing smoke or simulated smoke to the detecting chamber in accordance with the manufacturer's instructions" *CAN/ULC S536 5.7.4.1.2*

**testifire<sup>®</sup>**  
*is the most advanced simultaneous or sequential smoke, heat and CO tester available on the market today.*





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## USER INTERFACE

Test modes and cycles are selected and programmed via the user interface. Multiple languages are available in the set-up procedure.

Test cycle feedback is provided by two LEDs which flash according to the type of test selected and progress of the test.

## TEST MODES

- **Smoke:** generated internally from a fluid supplied by a replaceable capsule and then blown into the detector. Suitable for a wide variety of detection technologies
- **Heat (1):** for rate-of-rise and fixed temperature heat sensors up to 194°F (90°C)
- **Carbon Monoxide (CO):** generated internally from heated carbon material supplied by a replaceable capsule and then blown into the detector
- **Hi Heat (2):** heat at a higher temperature for heat sensors up to 212°F (100°C)

## TEST CYCLES

- **Single Testing:** a single stimuli test can be carried out using Smoke, Heat or CO
- **Simultaneous Testing:** Smoke, Heat and CO generated at the same time, in one test, in any combination programmed by the user
- **Sequential Testing:** Smoke, Heat and CO can be carried out in any order programmed by the user
- **Clearing:** clean air is blown to remove stimuli away from the detector enabling rapid detector reset times

## APPLICATIONS

- Point detectors (single and multi-sensor)
- Aspiring detectors (single and multi-criteria)
- Traditional smoke sensors based on optical and ionization technologies
- Advanced smoke sensors based on dual scatter angles and dual wavelength technologies
- CO fire sensors
- Heat sensors utilizing: thermistor, bi-metallic, diaphragm technologies
- Virtual chamber detectors
- Fire detectors using complex interdependent sensor algorithms

## IMAGE

- Enhanced professional image of service organization through the use of top-line technology

## ENVIRONMENT

- The smoke and CO capsules put an end to global warming (GWP) and volatile organic compound (VOC) issues while still retaining safe, non-flammable test stimuli

## PERFORMANCE

- Overall significant time savings and productivity enhancements through:
  - deployment of latest-technology stimuli generation and delivery
  - replacement of multiple tools with a single tester
  - dramatic reduction in detector and system reset times through use of clearing mode
- Substantial reduction in test times through combined stimuli deployment on multi-sensor detectors
- Unique ability to activate detectors using complex interdependent sensor algorithms
- Faster testing of detectors up to 212°F through use of hi-heat mode
- Elimination of detector contamination and damage risk through controlled stimuli release
- Greater immunity from variation in ambient conditions controlled through new stimuli generation technologies
- Wider range of detectors accommodated with wider cup and remote control option
- Up to 66%\* reduction in multi-sensor test times through use of simultaneous stimuli

\*If the detector and panel can enable and verify individual sensor activation

## COMPLIANCE

- Cost effective compliance with global test standards for field functional detector tests
- Audit trail option through Communications Module
- Optional annual calibration, traceable to national standards
- Pressurized aerosol hazards eliminated through use of capsules for smoke and CO generation

## HEALTH & SAFETY

- Through replacement of aerosol canisters with capsules:
  - retention of non-flammable stimuli
  - elimination of potential hazards and dangers that aerosol canisters present
  - dramatic reduction in transport and storage costs
- Test stimuli that is non-toxic and non-hazardous to the user
- Maximum safety for CO testing through on-demand controlled, low ppm, CO generation

## APPROVALS & CERTIFICATIONS

- UL certified
- Tested, approved and recommended for use by world-leading detector manufacturers
- CE, RoHS and WEEE compliant
- Produced by the world's only ISO 9001 listed specialist fire detector tester manufacturer

