



trutestTM

DETECTOR SENSITIVITY TESTER



GENUINE 'ONE TEST' MEASUREMENT

Some standards permit sensitivity test frequencies to be extended after proven detector stability. This relies on tracking drift, which can be done by only measuring actual sensitivity readings. Trutest does not need two tests to check the upper and lower limits (which, in itself, does not establish actual sensitivity). Just one test provides an actual reading in %/ft which can be compared year on year to establish drift. Other features include:

- Auto self calibration before each test
- Telescopic adjustment to over 20ft/6m
- Battery charge for a complete day's testing
- All hardware supplied in kit price quoted

- ***Reduces false alarms- a huge problem in the industry***
- ***Verifies the protection you need from your detector***
- ***Battery operated and lightweight***
- ***Simple to use***
- ***Suits most detectors***
- ***Calibrated in %/ft***
- ***Tests installed detectors***
- ***Self calibrates before testing***
- ***Measures actual sensitivity***



trutestTM

is ideal for ensuring that a smoke detector is operating within the correct range of sensitivity.



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SIMPLE TO USE

1. Assemble with ease
2. Offer up to detector
3. Select detector type and profile
4. Start test
5. Smoke level automatically increases until detector goes into alarm
6. Stop test and take reading

SPECIFICATIONS

Specified at 68°F +/- 5°F < 60% RH using slow ramp

All detector types and profiles: ($\pm 10\%$ of reading + 0.6 %/ft)

Size of detectors: All diameters from 2.8in/71mm to 5.7in/145mm

Maximum working height: 20ft 8in (6.3m)

Average test time: 120 seconds (1%/ft/minute fast ramp, 0.5%/ft/minute slow ramp)

Average calibration time:* 40 seconds

Average clearing time:* 120 seconds

Average tests per aerosol canister: 100 tests

Maximum obscuration for ionization: 4.00 %/ft

Maximum obscuration for photoelectric: 6.00 %/ft

Resolution: 0.01%/ft

Average battery life: 8-10 hours testing on a full charge

Type of aerosol: Environmentally friendly, non-flammable, non toxic. Safety data sheet available upon request

Calibration in operation: Self-calibrates before each test

Servicing intervals: 1 year recommended, but max interval 5000 tests

Operating temperature: 50°F to 95°F (+10°C to 35°C)

Storage temperature: 15°F to 120°F (-10°C to 50°C) (Do not store in direct sunlight)

Humidity: 0-85% RH non-condensing

Weight of main unit: 6lb 9oz (3kg) (incl. aerosol canister)

*can be conducted whilst walking between detectors

ORDERING INFORMATION

Trutest 800: Complete kit with telescopic pole

Trutest 801: Kit for users who already own Solo 100 telescopic pole

Trutest 400: Smoke Aerosol for Trutest- minimum order 12 canisters

Please specify country of use when ordering.



BOTH CONVENTIONAL AND INTELLIGENT SYSTEMS

Conventional Detectors

These detectors have no means of measuring their own sensitivity. Their sensitivity drifts, and so it should be tracked over a period of time, using Trutest.

Analog/Intelligent Detectors

Interrogating the fire system panel of an intelligent system enables, at best, a check of the value of 'clean air' response levels. It does not verify the condition of the vents or ability of the detector to receive smoke into its sensing chamber. Correlating an unmeasured smoke source (e.g. hand-held can of smoke) with a panel interrogation also does not produce a quantified test, as US NFPA 72 confirms:

"...the detector sensitivity shall not be measured using any device that administers an unmeasured concentration of smoke or other aerosol into the detector" NFPA 72 2007 (10.4.4.2.6)

By Introducing a measured and controlled smoke stimulus into the sensing chamber, Trutest enables cross-references to be made between the independent Trutest readings and the analog readings from the system panel. Only in this way can a true test of intelligent systems be achieved.

trutest Control Panel



ALSO AVAILABLE FROM SDi

- **Professional Smoke Detector Testers**
with approved and listed dispensers
- **Genuine Professional Heat Detector Testers**
suitable for fixed temperature, rate of rise and combined detectors
- **CO Detector Testers**
with approved and listed dispenser
- **Aerosol Dispensing Tools**
as recommended by detector manufacturers
- **Detector Removal Tools**
suitable for all leading makes and model of detector
- **Access Poles**
to enable detector maintenance up to 30+ ft.
- **Complete Maintenance and Service Kits**
providing complete solutions in economical and convenient kit formats
- **Smoke Detector Sensitivity Instruments**
to identify sensitivity drift and help ensure that smoke detector sensitivity is maintained within defined calibration parameters