

Trutest

MEASURES ACTUAL SENSITIVITY

BATTERY OPERATED & LIGHT

SELF CALIBRATED BEFORE TESTING

SMOKE DETECTOR SENSITIVITY TEST EQUIPMENT

ASSEMBLE WITH EASE

SIMPLE TO USE

Trutest is the world's most technologically advanced field service test instrument for smoke detectors. It enables fire alarm technicians to measure the sensitivity of installed smoke detectors quickly, accurately, easily and above all, professionally.



WHY TEST DETECTOR FUNCTION **AND** SENSITIVITY?

Detector sensitivity can, and does, drift. Over-sensitivity leads to false alarms, under-sensitivity to late alarms - or no alarms. The need for functional testing through introducing a smoke type stimulus is well recognised:

“The detectors shall be tested in place to ensure smoke entry into the sensing chamber and an alarm response. Testing with smoke or listed aerosol...shall be permitted as acceptable test methods...”

USA NFPA 72 1999 Table 7-2.2 (Test Methods) 13.g.1

But the requirement for sensitivity checks is also clear in national standards:

“...tests shall be performed to ensure that each smoke detector is within its listed and marked sensitivity range...”

USA NFPA 72 1999 Table 7-2.2 (Test Methods) 13.g.1

“it is essential that routine tests are adequate to ensure that the requisite degree of sensitivity to fire is maintained, and users should satisfy themselves on this point”.

UK BS 5839 Part 1 1988 (29.4.1)

With its measured introduction of listed smoke aerosol to the sensing chamber of the installed detector, Trutest enables the functional and sensitivity checks to be combined within a single, cost effective test.



A revolutionary product, Trutest not only introduces a smoke test aerosol through the vents of the installed detector to the sensing chamber, but operates using a precision closed loop system - measuring smoke obscuration and feeding back information to a controlling microprocessor.

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



The leading device
Trutest adds to sys

APPLIES TO 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 1999 (7-3.2.1)

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.

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 only by 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

REALLY SIMPLE TO USE

- assemble with ease
- offer up to detector
- select detector type and profile
- start test
- smoke level automatically increases until detector goes into alarm
- stop test and take reading



of its type today,
tem integrity, while saving time, labor and money



Trutest is fully compatible with SOLO tools and SOLO users can add:

- a single universal detector removal/extraction tool
- functional heat detector testers (battery and 110 – 240 volt versions)
- functional smoke detector testers
- extensions to reach up to 30ft/9m

And because Trutest and SOLO interchange on the same pole the result is the most cost-effective fully integrated universal range in the world.



The world's genuine leader in universal smoke and heat detector test and service devices.

Exclusively distributed in North America by SDi

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Trutest accuracy for sensitivity measurements:

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

All detector types and profiles:	±(10% of reading + 0.6 %/ft) typically ±(10% of reading + 0.3 %/ft)
Size of detectors:	All diameters from 2.8in/71mm to 5.7in/145mm

Operating parameters:

Maximum working height:	20ft 8ins (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

**can be conducted whilst walking between detectors*

Type of aerosol:

Environmentally friendly, non-flammable, non toxic
Safety Data Sheet available on request

Calibration & servicing:

In operation:	Self-calibrates before each test
Servicing intervals:	1 year recommended, but max interval 5000 tests

Environment:

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 (incl. aerosol canister):	6lb 9oz (3kg)

Because our policy is one of continuous improvement, details described within this publication are subject to change without notice.

Ordering information:

Trutest 800:	Complete kit with telescopic pole
Trutest 801:	Kit for users who already own SOLO 100 telescopic pole
Smoke 400:	Smoke aerosol for Trutest - minimum order 12 off canisters



PLEASE SPECIFY COUNTRY OF USE WHEN ORDERING