



THE 6500 SERIES beam detectors



Advanced Ideas. Advanced Solutions



6500 SERIES KEY FEATURES

- **ASURE TEST** Asuretest is available on both addressable and conventional versions of the 6500 Series infra-red beam detector.
- **ASURE TEST** No need to hire a platform to give high level access to the device.
- **ASURE TEST** Hard wired Asuretest enables complete testing of the electronics and optics from ground level, saving time and money during commissioning and maintenance.
- Two automatically variable sensitivity modes compensate for short term environmental changes.
- Automatic drift compensation compensates for long term sensitivity changes caused by environmental factors.
- Four fixed sensitivity levels.
- 5 – 100m operating range, designed for the protection of buildings such as shopping centres, heritage buildings, warehouses and other structures with large open spaces.
- Infra-red operation.
- Easy set-up and calibration with visual aids for both coarse and fine adjustment.
- Approved to EN 54 part 12:2002.
- Loop-powered addressable or externally powered conventional versions.
- The conventional version operates from both 12 and 24VDC, enabling it to be used as part of either a fire or a security system.

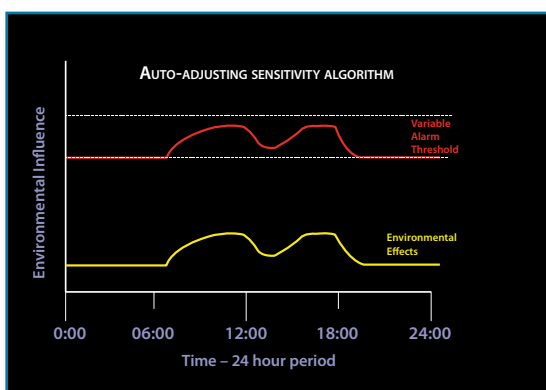
Asuretest is a unique patented servo operated remote test capability that fully tests both the optics and the electronics of the device without having to physically access the unit. In addition, the unique auto-adjusting algorithm automatically adjusts the alarm threshold to compensate for short-term environmental changes.

6500 SERIES KEY FEATURES

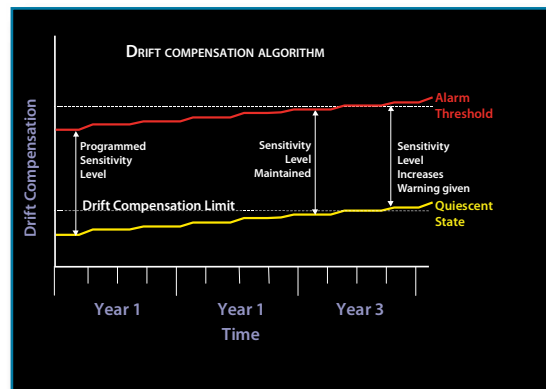


is a unique patented remote test capability that fully tests both the optics and the electronics of the device without having to physically access the unit. An optical filter is introduced into the optical path, attenuating the beam and causing the unit to go into alarm. Unlike other test methods, this test process provides a complete check of every component in the alarm path without the need for access at high level. In the conventional version, the filter is activated from ground level by a hard-wired connection; in the analogue addressable model it is initiated by a command from the fire control panel to the servo motor. Given that the majority of beam detectors are likely to be installed at a considerable height, the time saved during routine maintenance should be significant.

The unique auto-adjusting sensitivity algorithm automatically adjusts the alarm threshold to compensate for short-term changes in the environment which could otherwise result in unwanted alarms. Two alternative auto-adjusting sensitivity settings are available. These adjustments do not compromise the detector's ability to respond quickly to a fire incident.



Automatic drift compensation prevents the long-term build up of dust or dirt on the optical surfaces from making the detector more sensitive; the design of the enclosure also ensures that settling dust attenuates the optical path as little as possible. The sensitivity of the detector can be set to one of four levels between 25% and 50% obscuration, providing application flexibility to suit the environment in which the detector will be installed.



The 6500 Series consists of a transmitter and a receiver contained in a single enclosure, the emitted infrared beam is returned to the detector from a reflector panel located between 5 and 100 metres away. A special setup mode makes alignment and setup a simple operation for one man; alignment of the detector is simplified with the aid of the detector's "gun sight" targeting device. Alignment of the detector with the reflector can then be "fine tuned" with the aid of a numerical signal strength indicator. The unit can be adjusted by ± 10 degrees in both the horizontal and vertical planes; where greater angular adjustment is required, the multi-mount accessory enables the detector to move through 180 degrees horizontally.

6500RS AND 6500R Conventional units

The 6500RS is fitted with the Asuretest remote test option, the 6500R is identical in operation but lacks Asuretest. Both versions are externally powered, operating from either a nominal 12 or 24VDC, enabling them to form part of a fire or security system. The units are very versatile; they are compatible with any conventional control panel and, by using them in conjunction with a suitable interface control module, they can be added to any intelligent system irrespective of the communication protocol between the control panel and detectors.

6500S AND 6500 Addressable units

The 6500S is fitted with the Asuretest remote test option, the 6500 is identical in operation but lacks Asuretest. Both versions are loop powered, operating from any control panel running the System Sensor Series 200 *plus* protocol.

Note: External power is required for the Asuretest feature.



The world's largest smoke detector manufacturer





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