

# Conventional Optical Smoke Detector ED2351E

Instruction Sheet  
R10066GB0



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# 1 Conventional Optical Smoke Detector ED2351E

The function of the ED2351E optical smoke detector is based on light scattering making it suitable for detecting light smoke with relatively large particles. Optical smoke detectors are used to indicate fire alarm at an early stage, while the fire is yet smouldering.

Drift compensation is one of the key features of the ED2351E detector. It prevents the gradual increase in sensitivity resulting from long-term build-up of settled dust and other airborne contaminants in the smoke chamber. Thus it ensures consistent sensitivity to smoke for the whole period of maintenance intervals.

The ED2351E is recommended as a general-purpose fire detector in hotels, offices, warehouses etc.

## 1.1 Conventional 300 series detectors with intelligent features

The 300 series of fire detectors from Esmi have innovative features and functionality that earlier were seen only in intelligent addressable systems.

The new smoke chamber design reduces the influence of air born dust and combined with the built-in drift compensation reduces risk of nuisance alarms for the ED2351E detectors.

Sensitivity selection optimises the ED2351E performance in its application.

The 300 series of detectors are compact and have an attractive low profile design.

A hand-held test and maintenance tool unit provides for advanced maintenance features.

### **Note!**

- It is recommended not to cover or paint the detectors.
- Detectors have to be installed according to separate installation instructions. Function of detector must be tested at regular intervals.
- Recommended cleaning procedure of smoke detectors is described in documentation accompanying the detectors.
- Concerning information of compatible bases please refer to the datasheets of the B400 series of bases.

## 1.2 Test and Maintenance

### 1.2.1 S300RPTU test and maintenance unit

The S300RPTU test and maintenance unit provides unique features in conventional detectors.

The sensitivity of the ED2351E smoke detector can be set to one of three preset levels; low, medium or high, for optimum performance within the environment in which it is installed.

The chamber contamination of the ED2351E can be read as well as the value of the thermal element of the ED4351E and ED5351E.

The last maintenance date can be written to and read from all 300 series detectors.

Alarm condition can be activated for testing purposes.

### 1.2.2 S300SAT test unit

The S300SAT provides a radio link between the S300RPTU tool and a series 300 detector over distances up to approximately 8 meters. It clips directly into position on the detector, with the use of an access pole.

### 1.2.3 S300RTU test unit

The S300RTU is a low cost test device for activation of alarm condition. The unit has a coded laser beam, which activates an alarm condition in the detector at distances of up to 5m from the detector. It is an ideal tool for initial commissioning and routine testing.

## 1.3 Product Codes

Product	Product code
ED2351E Smoke Detector	FFS06714620E
S300RPTU	FFS06718710
S300SAT	FFS06718720
S300RTU	FFS06718700