

Conventional Multi- Criteria Detector ED2351TEM

Instruction Sheet
R10067GB0



Schneider Electric Fire & Security Oy

Sokerilinnantie 11 C
FI-02600 Espoo, Finland
Tel: +358 10 446 511
Website: www.schneider-electric.com
Document number: R10067GB0
Published: 25.04.2019

© 2018 – Schneider Electric. All Rights Reserved. This information is only to be used as guidance. Subject to changes and errors.

Contents

1	Conventional Multi-Criteria Detector ED2351TEM	4
1.1	Conventional 300 series detectors with intelligent features.....	4
1.2	Test and Maintenance.....	5
1.2.1	S300RPTU test and maintenance unit	5
1.2.2	S300SAT test unit.....	5
1.2.3	S300RTU test unit	5
1.3	Product Codes	6

1 **Conventional Multi-Criteria Detector ED2351TEM**

The 2351TEM photoelectric smoke/thermal detector incorporates an optical chamber and a thermal element, which in turn are continually monitored by an on board processor by using algorithms developed specifically for the unit. An alarm signal is only enabled in the detector once the processor is satisfied that an incipient fire has been detected. By using a combination of inputs, the incidence of nuisance alarms is reduced while at the same time, the response time to an actual fire is also improved.

'Drift compensation' algorithms are one of the key features of the 2351TEM detector. These algorithms ensure a consistent alarm sensitivity threshold for periods between service intervals. This provides the user with both a reduction in the frequency of nuisance alarms and maintenance savings by extending the period before cleaning of the detector chamber is required.

The 2351TEM's performance can be optimised for its application by selecting from one of three preset alarm thresholds - Low, Medium and High, offering greater stability and optimum performance within the environment in which it has been installed. The selection is easily achieved through the use of a remote hand-held tool.

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 and ED2351TEM detectors.

Sensitivity selection optimises the ED2351E and ED2351TEM performance in its application.

Thermal detectors are available for class A1R, A2S as well as for the high temperature class BS.

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
ED2351TEM Multi-Criteria Detector	FFS06714621E
S300RPTU	FFS06718710
S300SAT	FFS06718720
S300RTU	FFS06718700