



**DI1552**  
*Ionisation Sensor*

**General**

The 1500 series detectors use a microprocessor for measurement and communication. An enhanced protocol ensures the overall integrity and error free operation of the system, without compromising detection speed.

All sensors are compatible with a standard base that makes them easily interchangeable and support the connection of the PA25/3L remote indicator.

**DP1561 Photoelectric Smoke Sensor**

This sensor works using the Tyndall effect. It is capable of detecting a fire in its early stages when it could still be without flames, and is normally used in areas where the possible fires generate visible smoke, like plastics, polystyrene, PVC, etc.

**DP1551T Dual Sensor**

This sensor features a combined photoelectric and heat, dual-sensor that combines one photoelectric and two heat sensors. It can detect a wide range of different fire types.

The heat detection is based on a rate-of-rise response that is capable of detecting fires generating very low quantities of smoke, but a lot of heat. The photoelectric sensor uses the Tyndall effect.

**DI1552 Ionisation Smoke Sensor**

This sensor bases its operation on imbalance of its ionisation chambers in the presence of smoke. It is capable of detecting a fire in the early stages when it could still be without flames, and is normally used in clean, high-risk environments where smoke of small particles (visible or not) could be present.

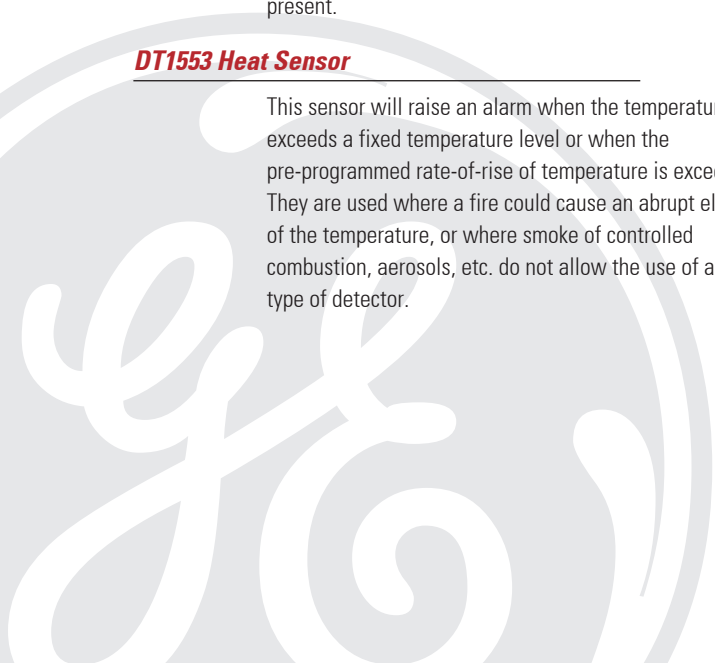
**DT1553 Heat Sensor**

This sensor will raise an alarm when the temperature exceeds a fixed temperature level or when the pre-programmed rate-of-rise of temperature is exceeded. They are used where a fire could cause an abrupt elevation of the temperature, or where smoke of controlled combustion, aerosols, etc. do not allow the use of any other type of detector.



**Standard Features**

- Remote signalling capabilities
- Optical sensor with field exchangeable optical chamber
- Easy soft addressing (1-125)
- SMD technology
- Reliable communication protocol
- Full diagnostic self testing
- Full range: Ionisation, Optical and Heat and Dual sensors (optical/heat)
- Full range of supporting I/O units and accessories
- EN54 Approved



# DI1552

Ionisation Sensor

## Specifications

<b>Operating voltage</b>	22 to 38 VDC
<b>Current consumption</b>	
Quiescent @ 38 VDC	200 A
In Alarm	< 11 mA
<b>Alarm indication (Dual LED)</b>	White OFF - Red ON
<b>Remote Alarm Output</b>	Available
<b>Environment</b>	
Storage Temperature	-10 to +70 °C
Operating Temperature	-10 to +60 °C
Humidity (non-condensing)	0-95%
IP rating	IP42
<b>Radioactive Source</b>	0.33 ± 0.04 Ci Am 241
<b>Dimensions (h x Ø)</b>	45 x 99 mm

## Other Accessories

A comprehensive range of accessories complements this range. It consists of: Isolators, Sounder Controllers, Zone Monitor Units, Manual Call Points as well as a variety of I/O modules.

## User Friendly

Sensors are individually identified by setting an address through a device programmer (PG700). The address is stored in flash memory. This method eliminates the risk of addresses being changed without authorization.

## Ordering Information

Part No.	Description
DI1552	Ionisation Sensor



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