



# EXODUS 2W SERIES SELECTION GUIDE

**Exodus OH/2W**  
Optical Smoke & Heat Multisensor




**Detects:**  
1. Large smoke particles e.g. from smouldering fires OR  
2. Small Smoke particles AND a small increase in temperature e.g. from a fast flaming fire.  
**DOES NOT** alarm on heat only.  
**Suitable For:** Fast detection for widest range of fires. Gives improved false alarm immunity compared to ionisation or optical only.  
**Not Suitable For:** Smoky, dusty or steamy environments e.g. kitchens, bars, bathrooms.  
**Label Colour:** Blue.

**Exodus RR/2W**  
Rate of Rise Heat Detector




**Detects:**  
1. Rapid increases in temperature OR  
2. Temperatures above 58°C (136°F).  
**Suitable For:** Fast fire detection in smoky or dusty environments e.g. bars or attics, where normal temperatures do not exceed 38°C (100°F).  
**Not Suitable For:** Environments where the temperature may change rapidly, e.g. kitchens, bathrooms.  
**Label Colour:** Green.

**Exodus FT64/2W**  
64°C Fixed Temperature Heat Detector



**Detects:**  
Temperature above 64°C (147°F).  
**Suitable For:** Fire detection in smoky environments where rapid temperature changes might occur e.g. kitchens, bathrooms, where normal temperatures do not exceed 44°C (111°F).  
**Not Suitable For:** Fast detection of slow burning or smouldering fires, or for use where the normal temperature exceeds 44°C (111°F).  
**Label Colour:** Orange.

**Exodus FT90/2W**  
90°C Fixed Temperature Heat Detector



**Detects:**  
Temperatures above 90°C (194°F).  
**Suitable For:** Environments where temperatures up to 70°C (158°F) occur normally e.g. boiler rooms.  
**Not Suitable For:** Fast detection of slow burning or smouldering fires.  
**Label Colour:** Red.

	Exodus OH/2W	Exodus RR/2W	Exodus FT64/2W	Exodus FT90/2W
10V-30V/2-WIRE OPERATION	•	•	•	•
MICROPROCESSOR TECHNOLOGY	•	•	•	•
DIGITAL TECHNOLOGY DETECTION ALGORITHMS	•	•	•	•
ALARM SIMULATION TEST BUTTON	•	•	•	•
REMOTE LED OUTPUT	•	•	•	•
OPTICAL & THERMAL DETECTION FOR OPTIMUM SENSITIVITY	•	•	•	•
DIGITAL DRIFT COMPENSATION	•	•	•	•
DESIGNED TO COMPLY WITH EN54-5	N/A	•	•	•
DESIGNED TO COMPLY WITH EN54-7	•	N/A	N/A	N/A
LABEL COLOUR	BLUE	GREEN	ORANGE	RED



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British Security Industry Association

# Exodus 2W Series SMOKE & HEAT DETECTORS



As the new leader in fire sensing technologies, Texecom is proud to introduce the *Exodus 2W Series* of smoke and heat detectors. Fully compatible with conventional fire control panels, the range includes a heat enhanced optical multisensor for fast detection of all types of fire plus a selection of heat detectors to enable maximum protection of any installation environment. With advanced digital signal processing on all detector types, the *Exodus 2W Series* delivers outstanding performance with unparalleled reliability.

Outstanding features include:

- ✓ 10V-30V/2-WIRE OPERATION
- ✓ DIGITAL MICROPROCESSOR TECHNOLOGY
- ✓ DIGITAL DETECTION ALGORITHMS
- ✓ ALARM SIMULATION TEST BUTTON
- ✓ CEILING CONNECTOR BASE
- ✓ REMOTE LED OUTPUT

Optical & Heat Multisensor additional features:

- ✓ HEAT ENHANCED OPTICAL DETECTION
- ✓ DIGITAL DRIFT COMPENSATION
- ✓ DESIGNED TO COMPLY WITH EN54-7

Heat Detector additional features:

- ✓ DIGITAL THERMAL DETECTION
- ✓ DESIGNED TO COMPLY WITH EN54-5

Ask your distributor today for the new **Texecom full colour Product Guide**.

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Detachable Detection Modules



Colour Coded Identification



Cable Entry Knockouts



Corrosion Resistant Terminals for Maximum Contact Reliability



10A-30V 2-Wire Operation

## EXODUS OH/2W OPTICAL & HEAT MULTISENSOR

The Exodus OH/2W Optical and Heat Multisensor provides fast detection of all types of fire, ensuring maximum responsiveness and performance. By combining digital temperature measurement with state-of-the-art optical smoke sensing technology, both slow burning smouldering fires and fast burning flaming fires are detected with equal reliability.

### Superior Optical Design

The Exodus OH/2W features an innovatively integrated optical chamber which maximises the volume of smoke analysed whilst maintaining an unobtrusive and elegant aesthetic design. With a large smoke sample size, Tevcom's proprietary digital signal processing algorithms can detect genuine alarms rapidly without compromising detector reliability and with exceptional false alarm immunity.

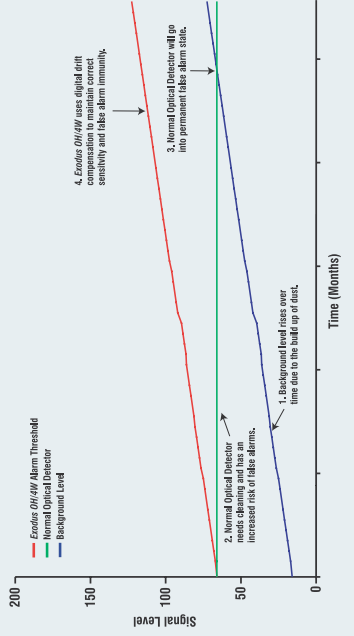
Superior mechanical design minimises light entry and scatter within the optical chamber, increasing detection reliability and eliminating false alarms from external light sources. Incorporating a micro-fine stainless steel wire mesh the optical chamber is protected from insect disturbances whilst the internal configuration ensures outstanding false alarm immunity from point contamination sources.



Optical Chamber with Micro-fine Smoke Mesh

### Digital Drift Compensation

As with all optical based smoke detectors dust build-up within the optical chamber is inevitable. The Exodus OH/2W features digital drift compensation which increases the alarm threshold as the standing level increases, maintaining false alarm immunity and reducing the need for regular cleaning. If the maximum threshold level is reached the detector will flash the LEDs every two seconds to signal that it needs cleaning.



### Heat Enhancement For Fast Burning Flaming Fires

"Optical only" smoke detectors respond well to slow burning smouldering fires due to large smoke particles providing a significant increase in optical signal. However, these designs have a slow response to fast burning flaming fires where the smoke particle size is small. By utilising digital thermal detection technology, the Exodus OH/2W recognises increases in room temperature and changes the sensitivity of the optical chamber accordingly.

This "heat enhancement" enables the rapid detection of fast burning flaming fires whilst maintaining the excellent false alarm immunity of a superior optical smoke detector.



Optical & Thermal Detection

## EXODUS RR, FT64 & FT90/2W HEAT DETECTORS

Where environmental conditions make the use of an optical and heat multisensor unsuitable, the Exodus 2W Series of heat detectors provide a range of alternative sensor solutions. Each featuring state-of-the-art digital microprocessor technology and designed to comply with EN54-5, a choice of detection criteria ensures the optimum balance between detection rate and false alarm immunity for any specific installation.

### Exodus RR/2W Rate of Rise Heat Detector



Rate of rise heat detector. Suitable for use where smoke or dust is prevalent, with fastest heat detection performance.

### Exodus FT64/2W 64°C Fixed Temperature Heat Detector



Fixed 64°C heat detector. Suitable for use where smoke or dust is prevalent with superior false alarm immunity.

### Exodus FT90/2W 90°C Fixed Temperature Heat Detector



Fixed 90°C heat detector. Suitable for use where smoke or dust is prevalent, ideal for extreme high ambient temperatures.

## ADDITIONAL EXODUS 2W SERIES FEATURES

### Locking Screw

All Exodus detectors contain a discreet hexagonal screw which may be used to lock the detector head to the ceiling ring.

### Chamber & Thermistor Test Button

Each Exodus detector incorporates a test button. Pressing this causes the unit to perform a FULL functional test which confirms that the microprocessor, thermistor and optical chamber (where appropriate) are functioning correctly.



### Specifications

Supply Voltage:	10 - 30Vdc	Packed Weight:	200g (approximately).
Quiescent Current:	60µA	EMC:	Independently certified to EN50130-4 : 1996.
Alarm Current:	12mA (At 12V)	Design:	Microcontroller based signal analysis.
	35mA (At 24V)		Electronic drift compensation.
	47mA (At 30V)		No false alarms from 80MHz to 1GHz at 30V/m.
Dimensions:	107mm X 55mm.		

### EUROPEAN STANDARDS

Conforms to European Union (EU) Electromagnetic Compatibility (EMC) Directive 89/368/EEC (amended by 92/31/EEC and 93/68/EEC). Approved to BS EN 55022 Class B and BS EN 50130-4 : 1996.

The CE mark indicates that this product complies with the European requirements for safety, health, environmental and customer protection.