

# *RfExtreme*

## DIGITAL ENVIRO-ADAPTIVE PIR



THANK YOU FOR VOTING TEXECOM



The *RfExtreme* passive infrared detector from Texecom provides ultra-high false alarm immunity with lightning fast catch performance, however harsh the environment. Combining the quality and reliability Texecom are renowned for with state-of-the-art micro-processing, the *RfExtreme* allows maximum flexibility yet remains simple to install.

### Outstanding features include:

- ✓ 200V/m IMMUNITY TO DIGITAL MOBILE PHONES
- ✓ FUZZY LOGIC SIGNAL ANALYSIS
- ✓ DIGITAL TEMPERATURE COMPENSATION
- ✓ NEURAL BASED ENVIRONMENT LEARNING
- ✓ MICROPROCESSOR SURFACE MOUNT TECHNOLOGY (SMT)
- ✓ 70V/m ADVANCED RF PROTECTION UP TO 1GHz
- ✓ FIRST TO ALARM AND LATCH INPUT
- ✓ PATENTED TAMPER-PROOF BRACKETS
- ✓ REMOTE LED DISABLE
- ✓ SEALED OPTICS

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

*RfExtreme* is a trademark of Texecom Ltd. (RfEx.EU3).

# Texecom

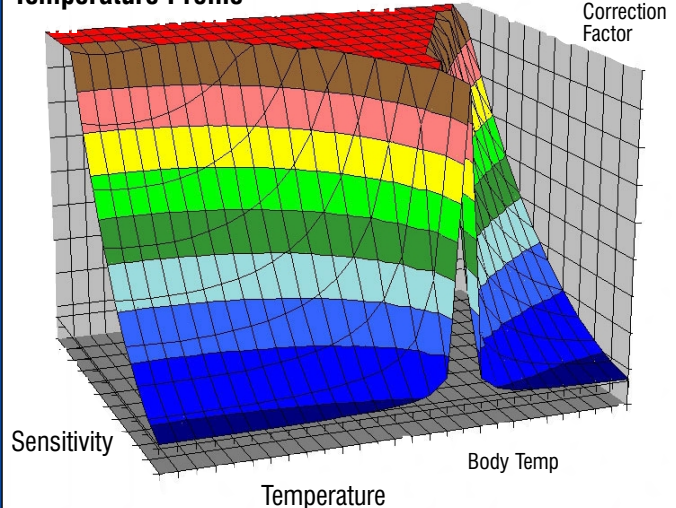
[www.texe.com](http://www.texe.com)

## INTELLIGENT SIGNAL PROCESSING

At the heart of the *RfExtreme* lies an advanced microprocessor. **Neural based environment learning** provides the detector with real intelligence, enabling it to continually monitor the installation, adjusting detection criteria to ensure optimum catch performance while maintaining maximum false alarm immunity.

The **digital temperature compensation** technique employed within the *RfExtreme* ensures that the **Fuzzy Logic** signature algorithms most suited to that particular environment are employed. **If the environment changes then so do the signal processing algorithms**, this technique, unique to Texecom ensures superb performance **even in the hottest of climates**.

Temperature Profile



## MOBILE PHONE IMMUNITY

The *RfExtreme* is an advanced microprocessor based PIR. Within the next two years it is estimated that up to one billion people, a fifth of the world's population, will own a mobile phone. The combined emissions from all these phones and base stations frequently interfere with other circuitry, in security systems this can (and often does) lead to unwanted false alarms.

The *RfExtreme* utilises techniques that have been specifically developed by Texecom for maximum immunity to false alarms caused by mobile phones. Even at field strengths as high as 200V/m the *RfExtreme* remains totally stable (try comparing this to other manufacturers). By installing an *RfExtreme* you can be confident of the most reliable detector now and for the future.

## BEST MANUFACTURER 2000 & 1999 INTRUDER ALARM MANUFACTURER OF THE YEAR 2001 & 2000

- 1st For offering the best quality products at the right prices
- 1st For reliability & responsiveness
- 1st For excellence in customer care & service
- 1st For providing a high level of support & servicing including training & help lines

## SPECIFICATION

### ELECTRICAL

**Voltage** 9 - 16Vdc.

**Current** 10mA typical at 12Vdc.

**Maximum Ripple** 2Vpp at 12Vdc (50 - 120Hz sinusoidal).

**Alarm Output** Normally closed (failsafe) voltage free relay contacts. Rated at 24Vdc, 50mA protected by 18Ω series resistor.

**Tamper Output** Normally closed voltage free switch contacts. Rated at 24Vdc, 50mA.

**Alarm Period** 2 - 3 seconds typical.

**Walk Test LED** Internal link to enable/disable.

**Remote LED Disable** Switched input between 0V and 12Vdc, (16V max).

**Latch Input** Switched input between 0V and 12Vdc, (16V max).

**Detection Method** Passive Infrared.

**Pyro-electric Detector** Dual element, low noise.

### ENVIRONMENTAL

**Operating Temperature** -10°C (+14°F) to +55°C (+131°F).

**Temperature Compensation** Microprocessor controlled true temperature compensation.

**Temperature Tolerance** No false alarm up to 1.7°C/minute (3°F/minute).

**Maximum Humidity** 95% non-condensing.

**Storage Temperature** -20°C (-4°F) to +60°C (+140°F).

**EMC Environment** Residential/Commercial/Light Industrial and Industrial.

### FALSE ALARM PROTECTION

**Design** Fuzzy Logic signal analysis. Neural Based Environment learning. Noise reduction circuits.

**RF Immunity** No false alarms at 200V/m due to digital telephone disturbances tested to DD ENV 50204 : 1996, at 900MHz; No false alarms from 80MHz to 1GHz at 70V/m modulated, equivalent to a 1400W uniform transmitter at 3m (10ft). Complies with EN 61000-4-3 : 1997.

**Electrostatic Discharge** No false alarm up to 8kV. Complies with EN 61000-4-2 : 1995.

**Fast Transient Immunity** No false alarm up to ±4kV. Complies with EN 61000-4-4 : 1995.

**High Energy Transient Immunity** No false alarm up to 2kV. Complies with EN 61000-4-5 : 1995.

**Conducted RF Susceptibility** No false alarm up to 2kV. Complies with EN 61000-4-6 : 1996.

**Conducted Emissions** Complies with EN 55022 Class B.

**Radiated Emissions** Complies with EN 55022 Class B.

**Pulse Count** Multi-mode Pulse Count. Internal link to select.

### PHYSICAL

#### Mounting

Corner or wall mount (without mounting bracket). Optional ceiling and wall mount brackets supplied as standard with adjustment range +/-30° horizontal, -30° vertical. Mounting height up to 3.1m (10'0").

**Casing** 2.5mm (0.1") wall thickness in flame retardant ABS.

**Dimensions** 90mm x 63mm x 40mm (3.6" x 2.5" x 1.6").

**Packed Weight** 125g (4.5oz) approx.

**Colour** Designer white with super-white lens.

### COVERAGE

**Volumetric (standard)** 12m (40ft) range; 24 facets with look-down creep zones; 104° coverage producing a maximum width of 18.9m (62ft).

**Pet** 12m (40ft) range; 11 facets; 104° coverage producing a maximum width of 18.9m (62ft).

**Curtain** 12m (40ft) range; 11 facets; 6° coverage producing a maximum width of 1.3m (4ft).

**Long Range** 33.5m (110ft) range; 11 facets; 6° with look-down creep zones; 8° coverage producing a maximum width of 1.6m (5ft).

### EUROPEAN STANDARDS

Conforms to European Union (EU) Electro-Magnetic Compatibility (EMC) Directive 89/336/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.



Certificate Number: FM 35285

**EASEM**

**BSIA**

British Security Industry Association

