Impag Shock Sensors **INSTALLATION INSTRUCTIONS**

Impag Plus

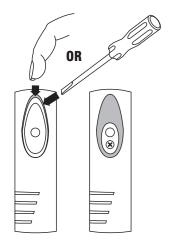
Impag Plus with Magnetic Contact ImpagE

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OPENING THE UNIT



Impaq Plus

The high performance Impag Plus offers every feature possibly needed for total reliability and ease of installation. Microprocessor operation provides maximum reliability using Digital Signal Processing (DSP) which continually monitors the environment ensuring that only genuine signals can cause an alarm. The tri-colour LED set-up method indicates to the engineer whether the sensitivity is too high or too low ensuring optimum detection performance and maximum false alarm immunity.

Impag Plus with Magnetic Contact

The Impag Plus with Magnetic Contact is ideal for increased protection of doors and windows. It includes an independent normally closed magnetic contact circuit accessible via separate terminals. This gives the option to wire in series with the shock sensor relay or to use as separate zones e.g. for DD243 compliance.

Impag E

The reliable and cost-effective Impag E offers a host of features usually found in more expensive detectors, combined with the engineer friendly installation you would expect from Texecom.

INSTALLATION

1. Select the intended position for mounting the detector. ensuring that the surface is clean and clear of any irregularities.

2.Gently remove the 'tear' shaped cover with your fingernail or a small screwdriver to access the fastening screw. Unscrew the single captive screw and gently remove the cover from the base.

3.Unscrew the PCB retaining screw.

4.Carefully ease out the printed circuit board from the base and place in a safe location.

5. Present the base up to the desired mounting position, punch out the required fixing holes in the base using a screwdriver and mark out the fixing points on the surface to be protected.

6.Fix the Impag in position using at least two No. 4 or No. 6 countersunk screws (some hard surfaces may require a pilot hole to be drilled first). Ensure that the base has full and secure contact with the surface to be protected.

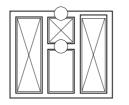
7.Carefully replace the printed circuit board and fasten to the base with the mounting screw provided.

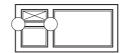
8.Connect cable to the Impag ensuring all the wires are safely secured in the terminal block

MOUNTING POSITIONS

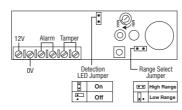
Use the examples as a quide to select the most suitable mounting position(s).

Note: Circles denote Impag





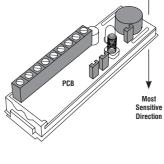
5 IMPAQ E PCB



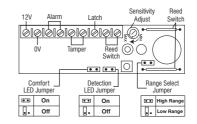
Impag E Set-up Options

- LED Jumper: Remove the jumper labelled "LED" to disable the LED. Range Select
- Jumper: Remove the jumper to select the low sensitivity range.
- Turn the pot clockwise to increase the Sensitivity Pot: detection sensitivity.

The Impag is designed to detect shock Most signals from any direction. The unit however Sensitive Direction is most sensitive to shocks passing through the PCB as shown



6 IMPAQ PLUS PCB



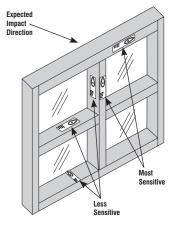
Impag Plus Set-up Options

Jumper:

Jumper:

- Comfort I FD Remove the jumper labelled "Comfort LED" to independently disable the flashing Comfort LED. Jumper:
- Detection LED Remove the jumper labelled "Detection to independently disable the LED from indicating an impact detection or latched mode.
- Range Select Remove the jumper to select the low sensitivity range.
- Sensitivity Pot: Turn the pot clockwise to increase the detection sensitivity.

The Impag can be installed in any orientation but for maximum sensitivity position as shown. Once mounted the sensitivity should be carefully calibrated using range jumper and sensitivity pot.



WARRANTY

All Texecom products are designed for reliable, troublefree operation. Quality is carefully monitored by extensive computerised testing. As a result, the Impag Series is covered by a ten year replacement warranty against defects in materials or workmanship (details on request).

The Impag Series of detectors are designed to detect the vibrations caused by an intruder attempting to force an entry. As the Impag Series is not a complete alarm system, but only a part thereof, Texecom cannot accept responsibility or liability for any damages whatsoever based on a claim that an Impag failed to function correctly.

Due to our policy of continuous improvement Texecom reserves the right to change the specification without prior notice.

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IMPAQ PLUS WITH **MAGNETIC CONTACT**

The Impag Plus with Magnetic Contact is ideal for increased protection of doors and windows. It includes an independent normally closed magnetic contact circuit accessible via separate terminals. This gives the option to wire in series with the shock sensor relay or to use as separate zones e.g. for DD243 compliance

The new magnetic contact circuit is accessible via the 'Reed' terminals with the other terminals retaining their previous functions

The reed switches are in parallel so the magnet can be installed on either side of the product, and must be aligned with the top of the unit as shown.

M IMPAQ PLUS LATCH **OPTIONS**

- Momentary: Latch terminal not connected: the LED will illuminate when an impact is detected and then reset after approximately 3 seconds
- Latching: Latch terminal connected to the Set Positive (Set+, SW+) line from the control panel. When the panel is set the LED will be disabled. When the Set Positive is removed (by unsetting the control panel) any shock sensors which have signalled an alarm will indicate a latched condition with a continuous red LED. Taking the latch line high and then low again will reset the shock sensors.
- First to Alarm: Latch terminal connected to the Alarm Positive (AL+, A+ve) line from the control panel. The first shock sensor activated while the system is set will indicate this with a slow flashing red LED (upon unsetting the system). Shock sensors activated subsequently will indicate this with a continuous red LED. Taking the latch line high and then low again will reset the shock sensors.

of the unit. Align magnets with top of unit. \bigcirc Non-Ferrous Mounting Material Maximum Break = 30mm Minimum Make = 15mm Ferrous Mounting Material Maximum Break = 15mm Minimum Make = 5mm ____ Note: Values depend on _ mounting material

Magnets can be installed either side

P FALSE ALARM PROTECTION

Design: Noise reduction circuits with maximum ground plane Digital Signal Processing (Impag Plus). Electrostatic Discharge: No false alarms up to ±8kV. Conforms to BS EN50130-4: 1996 Clause 9. Radiated RF Immunity No false alarms from: 80 - 2000MHz @ 10V/m 80% 1kHz Amplitude Modulation. 80 - 2000MHz @ 10V/m 1Hz Pulse Modulation. Conforms to BS EN50130-4: 1996 Clause 10 Conducted

RF Immunity: No false alarms from:

0.15 - 100MHz @ 10V/m 80% 1kHz Amplitude Modulation. 0.15 - 100MHz @ 10V/m 1Hz Pulse Modulation Conforms to BS EN50130-4: 1996 Clause 11.

Fast Transient Burst:

No false alarms up to ±1kV. Conforms to BS EN50130-4: 1996 Clause 12

Slow/High Energy

Voltage Surge: No false alarms up to ±1kV. Conforms to BS EN50130-4: 1996 Clause 13. Radiated Emissions: Conforms to BS EN55022: 1999 Class B.

8 IMPAQ PLUS SENSITIVITY SET-UP

1.When the unit is first powered the LED will light green for approximately 10 seconds while the unit self-calibrates.

2. To set the sensitivity turn the potentiometer VR1 to minimum (anti-clockwise) and firmly tap the middle of the area to be protected. If the LED lights red or orange, remove the "Range Select" jumper to select the "low sensitivity" range. Gradually increase the sensitivity by turning VR1 clockwise. After each adjustment, firmly tap the area and observe the LED colour. A red LED indicates that the sensitivity is correct. If the LED turns green, the sensitivity is too low and needs increasing. If however the LED turns orange, the sensitivity is too high and needs reducina.

3.If required, the Comfort LED jumper can now be removed to independently disable the flashing green Comfort LED.

4.If required, the Detection LED jumper can now be removed to independently disable the LED from indicating an impact detection

5.Replace the cover and tighten the fixing screw. Press the 'tear' shaped cover into the lid and confirm the desired impact response.

13 TECHNICAL **SPECIFICATION**

9 - 16Vpc

20mA typical. 9mA typical

Maximum Ripple: 2Vpp 10Hz - 100Hz @ 12Vpc.

Alarm Output

Shock Sensor: Normally closed (fail-safe) voltage free contacts, Bated at 350Vpc, 100mA. Optical relay, typically 16Ω to 26Ω contact resistance Mag. Contact:

Normally closed voltage free reed switch, Rated at 100Vpc, 500mA.

Tamper Output: Normally closed voltage free contacts. Bated at 24Vpc, 50mA.

Alarm Period: >2 seconds typical.

- Detection LED Impag Plus:
 - Internal jumper to enable/disable Comfort LED independently selectable. Internal jumper to enable/disable.
- Impag E:

Detection Method: Proprietary piezo electric transducer.



1.When the unit is first powered the LED will light red for approximately 10 seconds while the unit self-calibrates.

2. To set the sensitivity turn the potentiometer VR1 to minimum (anti-clockwise) and firmly tap the middle of the area to be protected. If the LED lights, remove the "Range Select" jumper to select the "low sensitivity" range. Gradually increase the sensitivity by turning VR1 clockwise. After each adjustment. firmly tap the area and observe the LED. A red LED indicates that the sensitivity is correct.

3.If required, the LED jumper can now be removed to disable the LED.

4.Replace the cover and tighten the fixing screw. Press the 'tear' shaped cover into the lid and confirm the desired impact response.

Note:

For maximum false alarm immunity always set the sensitivity to the minimum acceptable level.

14 ENVIRONMENTAL

Operating Temperature:	0°C (+32°F) to +55°C (+131°F).
Storage Temperature:	-20°C (-4°F) to +60°C (+140°F).
Maximum Humidity:	95% non-condensing.
EMC Environment:	Residential, Commercial and Light Industrial.

15 PHYSICAL

Casing:

Window frames, doors, walls Mounting: and roofs. Flame retardant ABS Dimensions: 86mm x 25mm x 21mm Packed Weight: 40g approx.



Impag Plus

Flashing Green:	Comfort LED. When enabled, the comfort LED will flash green approximately every 3 seconds to indicate correct operation.
Momentary Green:	Background disturbance/under-sensitive

setting. This is used to indicate background disturbances or an under-sensitive setting during installation. Momentary Red: Alarm condition/correct sensitivity. This is

used to indicate that an attack has been detected by the shock sensor or a correct sensitivity setting during installation.

Momentary Orange: Gross attack/over-sensitive condition. This is used to indicate that a massive attack has been detected by the shock sensor or an oversensitive setting during installation.

Continuous Red: The Impag Plus is in latched mode. The Impag Plus is in latched mode and Flashing Red: was first to alarm

Impag E

Red:

Alarm condition.

16 QUALITY ASSURANCE

All Texecom products are designed and manufactured for reliable, trouble-free operation, Quality is carefully monitored by extensive computerised testing.

A member of both the British Security Industry Association (BSIA) and the European Association of Security Equipment Manufacturers (EASEM). Texecom is also a quality assured company to ISO 9002.

European standards: conforms to European Union (EU) Electro-Magnetic Compatibility (EMC) Directive 89/336/EEC. Impag is a trademark of Texecom Ltd. Registered Design No: 2073220.



Certificate Number: FM 35285

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