THANK YOU FOR VOTING TEXECOM

INSTALLATION MANUAL

Premier iProx

Intelligent Proximity Module

CE

Texecom

www.texe.com

Introduction

The *Premier iProx* module can be installed in one of two modes:

Network Mode

The network mode allows the *Premier iProx* to be connected to the network terminals of the *Premier 24*/*48*/*88*/*168*/*640* control panels fitted with V7.00 or above. This mode provides the following facilities:

- Build in proximity reader using standard *Premier* proximity tags
- 26bit Wiegand interface to allow support for 3rd party access control readers
- Support for Key Seven SA840-A20 keypad
- Proximity tags/user codes are stored in the control panel
- Request To Exit (RTE) input
- Voltage free contacts (3 Amps) for connection to door strike
- Internal sounder and extension loudspeaker connections

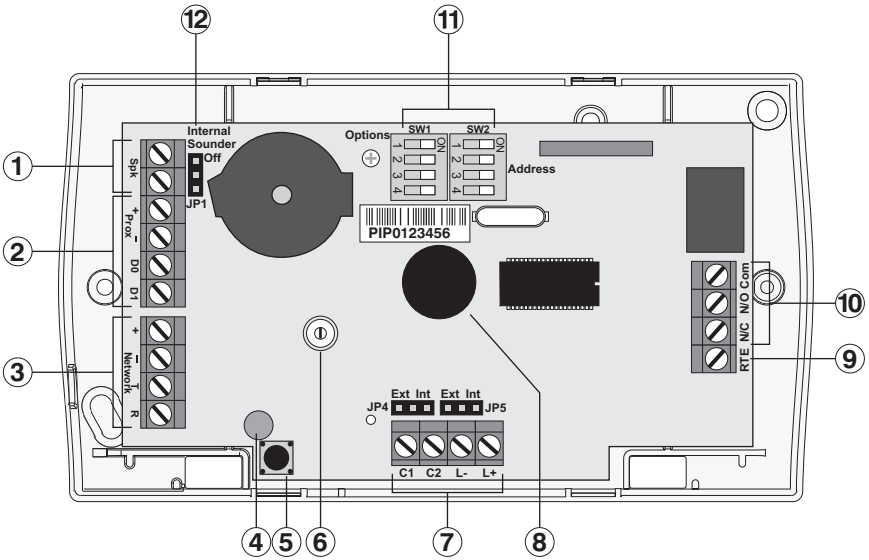
NOTE The maximum number of tags/users codes that can be stored is dependent on the number of users available on the control panel.

Stand-alone Mode

The stand-alone mode allows the *Premier iProx* to be used as a simple door access controller. This mode provides the following facilities:

- Build in proximity reader using standard *Premier* proximity tags
- 26bit Wiegand interface to allow support for 3rd party access control readers
- Up to 10 proximity tags can be stored in the module
- Request To Exit (RTE) input
- Voltage free contacts (3 Amps) for connection to door strike
- Internal sounder and extension loudspeaker connections

PCB Layout



① Extension loudspeaker terminals (16 Ohm)

② Wiegand interface connections

③ Network terminals for connection to a *Premier* control panel (Network Mode)

④ Status LED

⑤ Tamper switch

⑥ Volume adjustment for extension loudspeaker

⑦ Remote proximity coil terminal connections (for use with *Premier* proximity tags)

⑧ Internal proximity coil (for use with *Premier* proximity tags)

⑨ Request To Exit (RTE) input (apply 0V to activate)

⑩ Door strike relay (voltage free change-over contacts)

⑪ Option and address switches

⑫ Enable/disable internal sounder jumper link

Network Mode Installation

Introduction

When the *Premier iProx* is used in the Network mode, it uses one of the available remote keypad address slots on the system. The maximum number of keypad address slots varies depending on the control panel:

Control Panel	Max. No of Keypads
Premier 24	4
Premier 48	4
Premier 88	8
Premier 168	16
Premier 640	64

Before installing the unit, make sure that you have a spare keypad address slot, if all keypad slots have been used it will not be possible to install the *Premier iProx* in this mode.

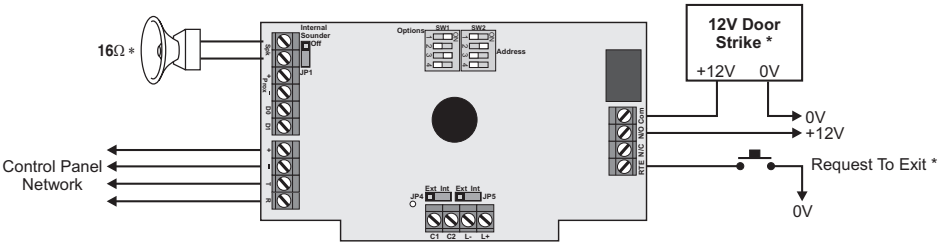
Option Switches for Network Mode

When installed is this mode SW1 and SW2 option switches function as follows:

SW1 - Options					
Switch	**Off**			**On**	
1	Internal Prox. Disabled			Internal Prox. Enabled	
2	Normal Relay Operation			Inverted Relay Operation	
3	Sounder Disabled			Sounder Enabled	
4	Tamper Disabled			Tamper Enabled	
SW2 - Address					
Address	**DIL 1**	**DIL 2**	**DIL 3**	**DIL 4**	
1	**On**/Off	Off	Off	Off	
2	Off	**On**	Off	Off	
3	Off	Off	**On**	Off	
4	Off	Off	Off	**On**	
5	**On**	Off	Off	**On**	
6	Off	**On**	Off	**On**	
7	Off	Off	**On**	**On**	
8	On	Off	**On**	**On**	

Using *Premier* Proximity Tags

This configuration allows you to use the standard proximity tags that are used with the *Premier LCDP* and *LCDLP* keypads. The tags must be learnt at a keypad which has a built in proximity reader. The figure below shows a typical installation:



* Optional

Installation

Remove all power from control panel before making any connections.

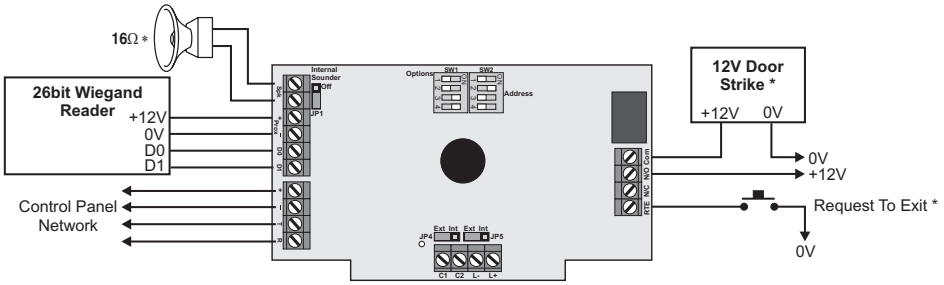
1. Install the module in the required location making sure that it mounted away from metal objects and other cables as these can affect the performance of the unit.
2. Connect the network connections of the module to the network connections of the control panel.
3. Connect the optional devices such the door strike, RTE button and loudspeaker.
4. Set jumper links JP4 and JP5 to internal (Int).
5. Ensure that option switch 1 on SW1 is set to “Internal Prox. Enabled” and option switches 2, 3 and 4 are set as required, see page 4.
6. Using SW2 set the address of the module to one of the available keypad address slots, see page 4.
7. Re-apply power to the control panel and select the engineer’s programming mode.
8. Select the “Confirm Devices” option within the “Engineer Utils” menu and confirm that the module is being “seen” as a remote keypad on the system.
9. If the relay on the *Premier iProx* is utilized, it is controlled by the relevant remote keypad output. Select the “Keypad Outputs” option within the “System Outputs” menu and program it to the required type, e.g. “Door Strike”.
10. If required learn any new tags then exit the engineer’s mode.
11. Check that the *Premier iProx* and proximity tags operate correctly.

Learning *Premier* Proximity Tags

If the system is already using *Premier* proximity tags then the existing tags will work as normal when presented to the *Premier iProx* module. For full details on learning proximity tags refer to the control panel installation manual.

Using 3rd Party Proximity Tags

This configuration allows you to use proximity tags from other manufacturers. The proximity reader MUST be capable of providing the data in 26bit Wiegand format. The figure below shows a typical installation:



Installation

Remove all power from control panel before making any connections.

12. Install the 26bit Wiegand reader in the required location and according to the manufacturer's instructions.
13. Install the *Premier iProx* module at least 0.5 metre away from the 26bit Wiegand reader and from other metal objects and cables.
14. Connect the network connections of the module to the network connections of the control panel.
15. Connect 26bit Wiegand reader to the *Premier iProx* as shown above.
16. Connect the optional devices such the door strike, RTE button and speaker.
17. Set jumper links JP4 and JP5 to internal (Int).
18. Ensure that option switch 1 on SW1 is set to "Internal Prox. Disabled" and option switches 2, 3 and 4 are set as required, see page 4.
19. Using SW2 set the address of the module to one of the available remote keypad address slots, see page 4.
20. Re-apply power to the control panel and select the engineer's programming mode.
21. Select the "Confirm Devices" option within the "Engineer Utils" menu and confirm that the module is being "seen" as a remote keypad on the system.
22. If the relay on the *Premier iProx* is utilized, it is controlled by the relevant keypad output. Select the "Keypad Outputs" option within the "System Outputs" menu and program it to the required type, e.g. "Door Strike".
23. Learn any new tags (see Learning 3rd Party Tags) then exit the engineer's mode.
24. Check that the *Premier iProx* and proximity tags operate correctly.

Learning 3rd Party Proximity Tags

When using 3rd party tags via a Wiegand reader, the tag or card will already have a unique 6 digit code encoded into the tag or card. This code is learnt onto the control panel and is stored as a standard 6 digit user code. To learn 3rd party tags proceed as follows:

1. Select the "Setup Users" menu on the control panel.
2. Enter the user number that you want to assign the tag or card.
3. When you are prompted to enter the user code, present the tag or card to the Wiegand reader.
4. The remote keypad will now display the 6 digit code that is encoded on the tag or card.
5. If you do not want the 6 digit code to be used as a normal access code, press the **[Omit]** key, this will change the code from a 6 digit code to a 5 digit code followed by a semicolon, e.g. "123456" will become "23456;".
6. Press **[Yes]** to accept the code and program the remaining user options as required.
7. Repeat steps 2 - 6 for other tags or cards.

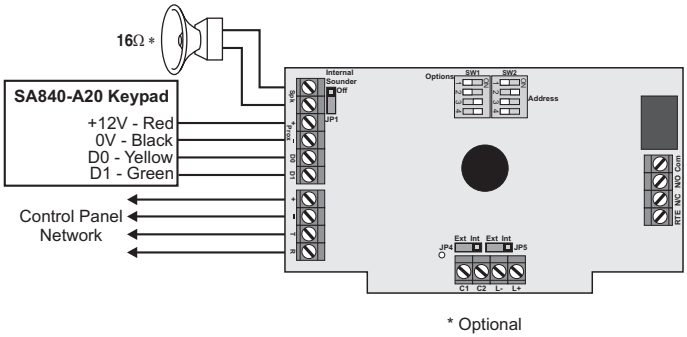
Network Mode Operation

When installed in the Network mode, the operation of the *Premier iProx* is as follows:

- When a valid proximity tag is presented to the module or via the Wiegand reader you will hear a beep from the internal sounder (if JP1 is set to Internal Sounder ON). The status LED will momentarily change from green to yellow indicating a valid tag read. If the alarm system is in a disarmed state the control panel will start the exit sequence. The exit tone will be generated if the "Sounder Enabled" switch 3 is ON (SW1). The user should leave premises as normal. If the alarm system is armed or in entry mode the system will disarm on presentation of a valid tag.
- When an invalid Premier proximity tag is presented to the module or via the Wiegand reader you will hear a beep from the internal sounder (if JP1 is set to Internal Sounder ON). The status LED will momentarily change from green to yellow, but the status of the alarm is not affected.
- The Door Strike relay is controlled by the control panel and will activate when the relevant remote keypad output is active.
- If the RTE input is activated the Door Strike relay is activated for 5 seconds.

Using the Key Seven SA840-A20 Keypad

This configuration allows you to integrate the SA840-A20 keypad manufactured by Key Seven with the *Premier 48/88/168/640* control panels (Version 7.10 onwards). The figure below shows a typical installation:



* Optional

Installation

Remove all power from control panel before making any connections.

1. Install the SA840-A20 keypad in the required location and according to the manufacturer's instructions.
2. Program the SA840-A20 output format for Wiegand (format No 2).
3. Install the *Premier iProx* module at least 0.5 metre away from other metal objects and cables.
4. Connect the network connections of the module to the network connections of the control panel.
5. Connect SA840-A20 keypad to the *Premier iProx* as shown above.
6. Set jumper links JP4 and JP5 to internal (Int).
7. Ensure that option switch 1 on SW1 is set to "Internal Prox. Disabled" and option switches 2, 3 and 4 are set as required, see page 4.
8. Using SW2 set the address of the module to one of the available remote keypad address slots, see page 4.
9. Re-apply power to the control panel and select the engineer's programming mode.
10. Select the "Confirm Devices" option within the "Engineer Utils" menu and confirm that the module is being "seen" as a remote keypad on the system.
11. If the relay on the *Premier iProx* is utilized, it is controlled by the relevant keypad output. Select the "Keypad Outputs" option within the "System Outputs" menu and program it to the required type.
12. Setup user codes as required then exit the engineer's mode.
13. Check that the SA840-A20 operate correctly.

SA840-A20 Keypad Operation

When the *Premier iProx* is installed with an SA840-A20 keypad the operation of the alarm system is as follows:

- If a valid user code is entered followed by the **[P]** key during the exit sequence the remaining exit time is truncated and the system arms immediately.
- If a valid user code is entered followed by the **[P]** key whilst the system is armed, the entry timer is started. The user must enter the premises via the designated entry route and disarm the system using the standard *Premier* remote keypad.
- If a valid user code is entered followed by the **[P]** key whilst the system is disarmed, the system status is unaffected.
- The Door Strike relay is controlled by the control panel and will activate when the relevant remote keypad output is active.
- If the RTE input is activated the Door Strike relay is activated for 5 seconds.

Stand-alone Mode Installation

Introduction

When the *Premier iProx* is used in the Stand-alone mode, it allows the unit do be used as a simple single door access controller. The module can learn and store up to 10 proximity tags, which can be either the Premier proximity tags or 3rd party proximity tags or cards via the 26bit Wiegand interface.

Option Switches for Network Mode

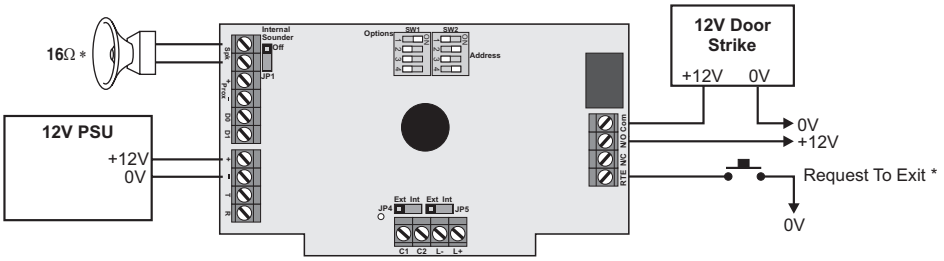
When installed is this mode SW1 and SW2 option switches function as follows:

SW1 - Options		
Switch	**Off**	**On**
1	Internal Prox. Disabled	Internal Prox. Enabled
2	Normal Relay Operation	Inverted Relay Operation
3	Delete Tag Mode	Add Tag Mode
4	Normal Operation	Program Mode

SW2 – User No/Door Strike Time					
No/Secs	**DIL 1**	**DIL 2**	**DIL 3**	**DIL 4**	
1	**On**/Off	Off	Off	Off	
2	Off	**On**	Off	Off	
3	Off	Off	**On**	Off	
4	Off	Off	Off	**On**	
5	**On**	Off	Off	**On**	
6	Off	**On**	Off	**On**	
7	Off	Off	**On**	**On**	
8	**On**	Off	**On**	**On**	
9	Off	**On**	**On**	**On**	
10	**On**	**On**	**On**	**On**	

Using *Premier* Proximity Tags

This configuration allows you to use the standard proximity tags that are used with the *Premier LCDP* and *LCDLP* keypads. The figure below shows a typical installation:



* Optional

Installation

Remove all power from power supply before making any connections.

1. Install the module in the required location making sure that it mounted away from metal objects and other cables as these can affect the performance of the unit.
2. Connect the +12V and 0V from the power supply to the + and - network connections of the module.
3. Connect the optional devices such the, RTE button and speaker.
4. Set jumper links JP4 and JP5 to internal (Int).
5. Ensure that option switch 1 on SW1 is set to “Internal Prox. Enabled” and option switch 2 is set as required, see page 10.
6. Ensure that option switches 3 and 4 on SW1 are initially set to OFF, see page 10.
7. Re-apply power to the power supply.
8. Learn or program tags.
9. Check that the *Premier iProx* and proximity tags operate correctly.

Learning Existing *Premier* Proximity Tags

If the system is already using *Premier* proximity tags for the operation of the alarm system, then the existing tags can be learnt into the *Premier iProx* module. This will allow users with the *Premier* proximity tags to operate both the door access control and the alarm system with same tag.

1. Set option switch 3 on SW1 to **ON** (Add Tag Mode), see page 10.
2. Set option switch 4 on SW1 to **ON** (Program Mode), see page 10. The status LED will flash green when the module is in program and add tag mode.
3. Set the user number 1-10 that you want to assign the tag to, using SW2, see page 10.
4. Present the tag to the centre of the module, an acceptance tone is generated and the tag data is stored in the module for the selected user.

5. Repeat steps 3 and 4 if other tags are to be learnt.
6. Set option switch 4 on SW1 to **OFF** (Normal Operation), see page 10. The status LED will light red when the module is in normal operation.
7. Set the Door Strike time to the required setting using SW2, see page 10.

Learning New *Premier* Proximity Tags

When leaving the factory, the *Premier* proximity tags are blank. When using this method of learning the tags, the *Premier iProx* module generates a unique 6 digit code that is stored both in the module and tag. If the tag was already programmed the data will be overwritten.

1. Set option switch 3 on SW1 to **ON** (Add Tag Mode), see page 10.
2. Set option switch 4 on SW1 to **ON** (Program Mode), see page 10. The status LED will flash green when the module is in program and add tag mode.
3. Set the user number 1-10 that you want to assign the tag to, using SW2, see page 10.
4. Press and hold the tamper switch until the unit starts beeping.
5. Present the tag to the centre of the module, an acceptance tone is generated and the tag is programmed for the selected user.
6. Repeat steps 3, 4 and 5 if other tags are to be learnt.
7. Set option switch 4 on SW1 to **OFF** (Normal Operation), see page 10. The status LED will light red when the module is in normal operation.
8. Set the Door Strike time to the required setting using SW2, see page 10.

Deleting Individual *Premier* Proximity Tags

If a tag is no longer required it can be deleted from the module as follows:

1. Set option switch 3 on SW1 to **OFF** (Delete Tag Mode), see page 10.
2. Set option switch 4 on SW1 to **ON** (Program Mode), see page 10. The status LED will flash red when the module is in program and delete tag mode.
3. Set the user number 1-10 that you want to delete, using SW2, see page 10.
4. Press and hold the tamper switch until the unit generates an acceptance tone.
5. Repeat step 3 and 4 if other tags are to be deleted.
6. Set option switch 4 on SW1 to **OFF** (Normal Operation), see page 10. The status LED will light red when the module is in normal operation.
7. Set the Door Strike time to the required setting using SW2, see page 10.

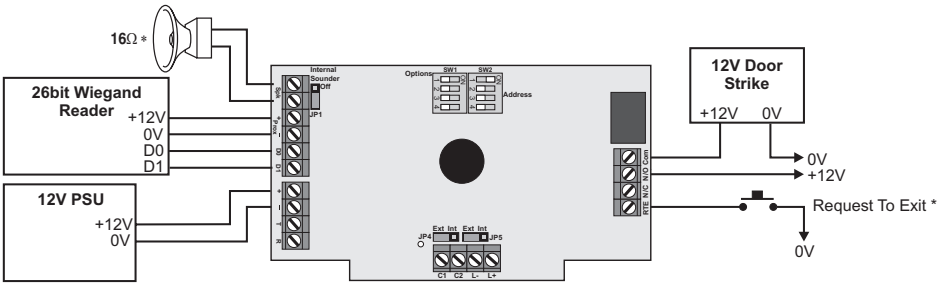
Deleting All *Premier* Proximity Tags

This procedure offers a fast method of deleting all programmed tags from the module:

1. Set option switch 3 on SW1 to **OFF** (Delete Tag Mode), see page 10.
2. Set option switch 4 on SW1 to **ON** (Program Mode), see page 10. The status LED will flash red when the module is in program and delete tag mode.
3. Set all SW2 switches to **OFF**.
4. Press and hold the tamper switch, after 3 seconds the unit will start to beep every second. After 10 seconds the unit generates an acceptance tone and all tags are deleted.

Using 3rd Party Proximity Tags

This configuration allows you to use proximity tags from other manufacturers. The proximity reader MUST be capable of providing the data in 26bit Wiegand format. The figure below shows a typical installation:



* Optional

Installation

Remove all power from power supply before making any connections.

1. Install the 26bit Wiegand reader in the required location and according to the manufacturers instructions.
2. Fix the Premier iProx module at least 0.5 metre away from the 26bit Wiegand reader and from other metal objects and cables.
3. Connect the +12V and 0V from the power supply to the + and - network connections of the module.
4. Connect the optional devices such the, RTE button and speaker.
5. Set jumper links JP4 and JP5 to internal (Int).
6. Ensure that option switch 1 on SW1 is set to “Internal Prox. Disabled” and option switch 2 is set as required, see page 10.
7. Ensure that option switches 3 and 4 on SW1 are initially set to OFF, see page 10.
8. Re-apply power to the power supply.
9. Learn the 3rd party tags or cards (see below).
10. Check that the iProx and proximity tags operate correctly.

Learning 3rd Party Proximity Tags or Cards

To learn 3rd party tags or cards in stand-alone mode proceed as follows:

1. Set option switch 3 on SW1 to **ON** (Add Tag Mode), see page 10.
2. Set option switch 4 on SW1 to **ON** (Program Mode), see page 10. The status LED will flash green when the module is in program and add tag mode.
3. Set the user number 1-10 that you want to assign the tag to, using SW2, see page 10.
4. Present the tag to the Wiegand reader, an acceptance tone is generated and the tag data is stored in the module for the selected user.
5. Repeat steps 3 and 4 if other tags are to be learnt.
6. Set option switch 4 on SW1 to **OFF** (Normal Operation), see page 10. The status LED will light red when the module is in normal operation.
7. Set the Door Strike time to the required setting using SW2, see page 6.

Stand-alone Mode Operation

When installed in the Stand-alone mode, the operation of the module is as follows:

- When a valid proximity tag is presented to the module or via the Wiegand reader you will hear an acceptance tone from the speaker (if connected) and the internal sounder (if JP1 is set to Internal Sounder ON). The status LED will change from red to green and the Door Strike relay is activated for the selected time (controlled by SW2).
- When an invalid proximity tag is presented to the module or via Wiegand reader you will hear an error tone from the internal sounder (if JP1 is set to Internal Sounder ON). The status LED will momentarily light yellow and the Door Strike relay is NOT activated.
- If the RTE input is activated the Door Strike relay is activated for the selected time (controlled by SW2).

Specifications

Electrical

Supply:	9 to 14VDC
Current Consumption:	35mA without internal Prox enabled 85mA with internal Prox enabled
Door Strike Relay:	Voltage free changeover @3A
Request to Exit (RTE):	Active low
Loudspeaker Output:	16Ohm
Wiegand Interface:	26bit

Environmental

Operating Temperature:	-10°C to +55°C
Maximum Humidity:	95% non-condensing

Physical

Dimensions:	133mm x 78mm x 20mm
Packed Weight:	140g (approx.)

Standards

The *Premier iProx* module conform to European Union (EU) Low Voltage Directive (LVD) 73/23/EEC (amended by 93/68/EEC) and Electro-Magnetic Compatibility (EMC) Directive 89/336/EEC (amended by 92/31/EEC and 93/68/EEC).

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

This product is suitable for use in systems designed to comply with PD 6662: 2004 (prEN 50131-1: 2004) at Grade 3 and Environmental Class II.

Warranty

All Texecom products are designed for reliable, trouble-free operation. Quality is carefully monitored by extensive computerised testing. As a result the *Premier iProx* module is covered by a two-year warranty against defects in material or workmanship. As the *Premier iProx* module 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 the *Premier iProx* module failed to function correctly. Due to our policy of continuous improvement Texecom reserve the right to change specification without prior notice.

Premier is a trademark of Texecom Ltd.

Texecom
www.texe.com

Texecom Limited, Bradwood Court, St. Crispin Way, Haslingden, Lancashire BB4 4PW, England.

Technical Support:

Tel: +44 (0)1706 234833; **Tel:** +44 (0)1706 234811; **Fax:** +44 (0)1706 213187

INS303