Simple Set Reader and Keyfobs
Engineering information

The **simple set reader** is suitable for installation in a range of intruder systems. It allows the system to be fully **set** and **unset** using a **keyfob**. A reader can learn to operate with up to eight keyfobs. Each keyfob is unique and can only be used if it is recognised by the reader, this provides total security. There can be more than one reader installed in a system. These instructions cover information on how to mount and wire the reader, how to engineer the panel and learn up to eight keyfobs to a reader and how to fully set and unset the system using a keyfob. The products covered in these instructions are:

☐ SS/01- Branded Simple Set Reader *with 2 pre-learnt keyfobs and a link*

☐ SS/01/UB- Unbranded Simple Set Reader *with 2 pre-learnt Keyfobs and a link*

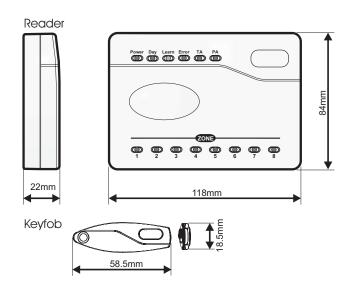☐ SS/F - Branded keyfob

☐ SS/F/UB - Unbranded keyfob

Do's

Before you begin installation work do ensure you read these instructions.

☐ Plan the installation work

☐ ensure you install the reader near entry/exit route to allow the system to be fully set or unset

☐ check the Simple set **reader** can be connected to your intruder system and ensure the panel software is compatible, *see wiring and programming*

☐ ensure the Tamper wiring is connected to the reader

☐ mount each reader away from metal surfaces and large metal objects

☐ where more than one reader is installed in a system ensure they are at least 1m distance apart

☐ test the operation of the reader(s) using the keyfobs

☐ when using a keyfob, always hold the keyfob perpendicular to the surface of the reader to achieve maximum range, see photo above.

NOTE: At least one keypad must be installed in the system. The keypad is necessary for manual operation of the system during normal use and for engineering it the during commissioning and maintenance.

Technical Data

Reader

Keyfob

	Keyfob SS/F & SS/F/UB	Reader SS/01 & SS/01/UB
Standards	RTT&E Directive: EN 300 330 and EN 301-489; BS EN 50130-4	
Power	-	13.8V dc from panel +/- 5% maximum 75mA
Minimum range	20mm from centre of depression	
keyfobs	8 maximum per reader	
Dimensions	58.5 x 18.5mm	118 x 84 x 22mm
Weight	4g	114g
Temperature	0 to +55ºC	
Colour	Dark Grey Polycarb.	White ABS
Mounting	-	Screws (not supplied)
Indications	-	Day - (green) Learn - (amber) Power, Zone, Error - (red) TA, and PA - (red)

Mounting the reader

① 6- Thinned sections for cable entry
Cable entry point
Cover fixing screw

① If required, cut-out the appropriate thinned section on the base for cable entry.

② Route the external cable through the base and fix the base using the two mounting points.

③ Connect the external cable to the terminal block on the cover assembly, see also wiring diagrams.

④ Clip the cover assembly to the base and ensure the tamper spring locates into the collar on the base ⓐ & ⓑ . Secure the *cover assembly* to the *base* using the *cover fixing screw* ⓒ .
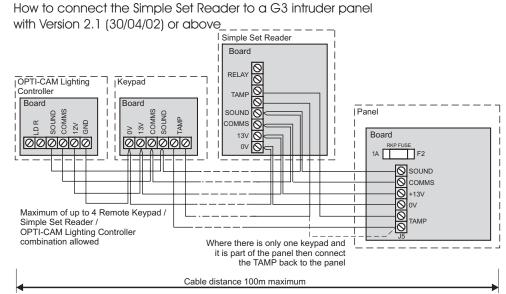

Wiring and programming

The **simple set reader** can be connected to a G3 or Accenta intruder panel. It may be possible to connect the reader to other intruder systems having keyswitch input option, for further information call Technical Support.

☐ Check the panel type is compatible to allow reader(s) to be connected to the system, see wiring diagrams.

☐ If you are installing the reader to an existing system then you will need to power down the system, note a tamper alarm will occur.

☐ Check the panel software is compatible to allow connection of the reader. The panel software version is normally printed on the microprocessor label. The microprocessor is located on the centre of the PCB.

☐ If the system requires programming to accept a keyswitch input, then follow the *how to program* instructions accompanying the appropriate wiring details.

☐ Once you have connected the reader to your intruder panel you will need to power up the system. On powering up, the system will go into alarm. At a keypad enter the user code and reset the system. The **Power** and **Day** indicator should now be lit at all keypads and also at the readers.

☐ You can now **set** and **unset** the system using the keyfobs supplied with the reader, see *operating instructions*.

☐ You must now test the system to check the reader provides **zone, tamper** and **attack** indications.
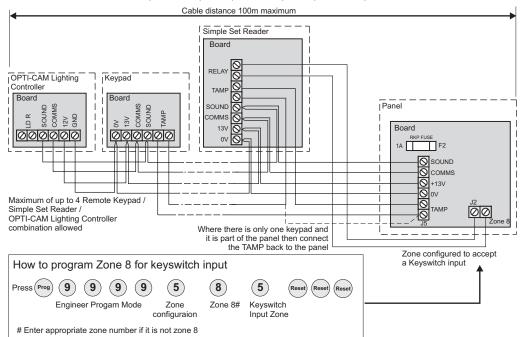
NOTE: If you have additional keyfobs or have acquired new keyfobs to replace lost ones, then you will need to learn the keyfobs, see *how to learn* instructions.
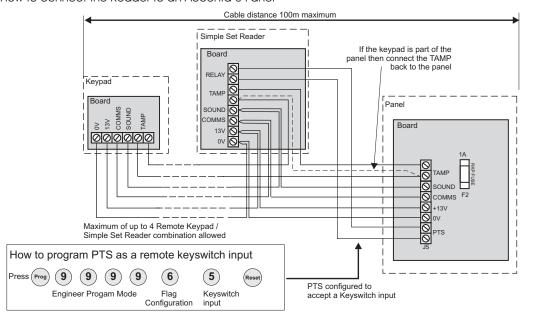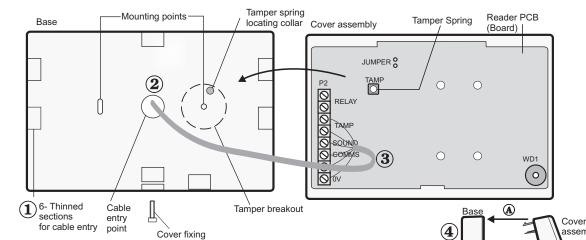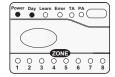
How to connect the Simple Set Reader to a G3 intruder panel with Version 2.1 (30/04/02) or above

Maximum of up to 4 Remote Keypad / Simple Set Reader / OPTI-CAM Lighting Controller combination allowed

Where there is only one keypad and it is part of the panel then connect the TAMP back to the panel

Cable distance 100m maximum

How to connect the Simple Set Reader to a G3 intruder panel with Software versions 1.2 (26/11/01), 1.1 (12/09/01), 1.0 (08/06/01)

Cable distance 100m maximum

Maximum of up to 4 Remote Keypad / Simple Set Reader / OPTI-CAM Lighting Controller combination allowed

Where there is only one keypad and it is part of the panel then connect the TAMP back to the panel

Zone configured to accept a Keyswitch input

How to program Zone 8 for keyswitch input

Press (Prog) ⑨ ⑨ ⑨ ⑨ ⑤ ⑧ ⑤ (Reset) (Reset) (Reset)

Engineer Progam Mode | Zone configuraion | Zone 8# | Keyswitch Input Zone

Enter appropriate zone number if it is not zone 8

How to connect the Reader to an Accenta 8 Panel

Cable distance 100m maximum

If the keypad is part of the panel then connect the TAMP back to the panel

Maximum of up to 4 Remote Keypad / Simple Set Reader combination allowed

How to program PTS as a remote keyswitch input

Press (Prog) ⑨ ⑨ ⑨ ⑨ ⑥ ⑤ (Reset)

Engineer Progam Mode | Flag Configuration | Keyswitch input
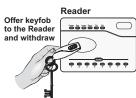
PTS configured to accept a Keyswitch input

Simple Set Reader and Keyfobs
Operating instructions

The reader mimics all the system indications given at other keypads in your system. The tamper indication is given by the indicator marked TA and personal attack by the indicator marked PA.
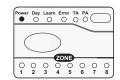
How to set the system

When you leave your premises you will need to set (or turn on) the intruder alarm system. Before setting the system you should ensure that the premises have been completely vacated and that all doors and windows are closed. Ensure that pets do not have access to the protected areas as they can cause a false alarm.

The **Day** indicator should be lit at the reader. Offer a *keyfob* to the reader and withdraw it as soon as you hear the *keyfob recognition beep tone* from the local sounder.

The system will now produce the exit beep tone and you should leave the premises by the exit route recommended by your installer. The system will set when the exit beep tone stops.

⚠ If you do not withdraw keyfob after it is recognised by the reader, you run the risk of entering the **learn mode.**

ℹ Once a **set/unset** operation is performed using the keyfob, wait for 5 seconds duration before next use of the keyfob to operate the system.

ℹ If you **set/unset** the system from a *reader* and subsequently **unset/set** the system using the *keypad*, then in some installations you may need to operate the system twice at the reader to allow the *reader* relay to catch up.

Offer keyfob to the Reader and withdraw

Reader

◀) Keyfob recognition beep
◀) Exit beep

How to unset the system

When you enter your premises you will need to unset (or turn off) the system.

◀) Entry beep

Enter your premises by the route recommended by your installer. The system will produce an entry beep tone.

Offer a *keyfob* to the reader and withdraw it as soon as you hear the *keyfob recognition* beep tone from the local sounder.

The system will stop the entry beep tone and light the green **Day** indicator.

If any Zone, Tamper or Attack indicator lights up then an alarm has occurred, and an intrusion may have taken place. Seek assistance before investigating further as intruders may still be on the premises. Then reset the system at the system keypad.

Offer keyfob to the Reader and withdraw

Reader

◀) Keyfob recognition beep

⚠ If you do not withdraw keyfob after it is recognised by the reader, you run the risk of entering the **learn mode.**

How to learn keyfobs if none are recognised

You will only need to learn keyfobs in this manner if no keyfobs are recognised by the *reader*. A *reader* can learn up to 8 keyfobs following power up of the intruder system. You must have all the keyfobs to be learnt available. Keyfobs can be learnt by each *reader* installed in a system

JUMPER — link fitted
Reader cover assembly
Reader PCB

POWER UP THE SYSTEM
◀) x 5 rapid beeps
JUMPER — link removed

① Ensure the *reader* is connected to the intruder system and the JUMPER link is fitted on the *reader PCB.*

Power up the intruder system and enter the User code at the system keypad to unset the system. You will hear five rapid beeps to acknowledge the *reader* is in the **Learn mode.** Remove the JUMPER link from the *reader PCB.*

ℹ The **learn mode** will NOT timeout until the first keyfob is learnt.

② Hold the *first keyfob* slightly touching it on the centre depression of the *reader*. Once the *first keyfob* is acknowledged by the *reader* the **ZONE 1** light changes from flashing to steady and there is a recognition beep given by the local sounder. Withdraw the learnt keyfob. The *reader* is now ready to learn the *next keyfob*, signalled by flashing of **ZONE 2** indicator.

Reader
Hold — first keyfob
◀) keyfob recognised beep

③ Offer the *next keyfob* slightly touching it on the centre depression of the *reader*. A learnt indication is given of the *next keyfob* when the flashing **ZONE** indicator changes to steady On indication and there is a recognition beep given by the local sounder. Shortly after the next numbered **ZONE** indicator starts flashing. Withdraw the learnt keyfob.

You now have up to 10 seconds to learn the *next keyfob.*

Reader
Next keyfob
◀) keyfob recognised beep

◀) x 2 beeps

④ Repeat ③ to learn the next keyfob.

Once all the keyfobs are recognised 'learnt' by the Reader wait for just over 10 seconds and the reader will exit the **learn mode,** this is announced by two beeps from the local sounder and return to Day mode indication.

How to learn new keyfobs

Using a recognised *learnt keyfob* the *reader* can learn further keyfobs. A total of 8 keyfobs are recognised by a reader. You may want to do this if you have acquired additional keyfobs. Using these procedures the reader will still memorise previously learnt keyfobs. New keyfobs must be learnt by each *reader* installed in a system.

① Ensure the *reader* is in the day mode with the **Day** light lit. You should have one *learnt keyfob* and the new keyfobs available.

ℹ When an unrecognised keyfob is offered to the *reader* it will cause the **Error** light to be lit and continuous sound is emitted from the local sounder.

Reader
Hold for 10 seconds — Learnt keyfob
◀) keyfob recognised beep
◀) x 5 rapid beeps

② Hold the recognised *'learnt' keyfob* such that it touches the centre depression on the Reader and keep it there without movement for 10 seconds. You will hear a keyfob recognition beep and 10 seconds later five rapid beeps from the local sounder. You are now in the **learn mode**. The **Learn** light will give a flashing indication and the **ZONE** lights change from flashing to steady On to show recognised or *learnt keyfob*. The *reader* is now ready to learn the *new keyfobs* signalled by the next flashing **ZONE** indicator. Withdraw the keyfob.

Indication given assumes 2 keyfobs were previously learnt by the reader

ℹ In the **learn mode** when an already learnt keyfob is offered to the *reader,* an Error indication will be given.

ℹ The **learn mode** will timeout after 10 seconds if no actions is taken to learn new keyfob

Reader
New keyfob
◀) keyfob recognised beep

③ Offer the *new keyfob* slightly touch it on the centre depression of the *reader*. A learnt indication is given of the *new keyfob* when the flashing **ZONE** indicator changes to steady On indication and there is a recognition beep given by the local sounder. Shortly after the next numbered **ZONE** indicator will start flashing. Withdraw the learnt keyfob.

You now have up to 10 seconds to learn another new keyfob.

◀) x 2 beeps

④ Repeat ③ to learn the *new keyfob.*

Once all the keyfobs are recognised 'learnt' by the *reader* wait for just over 10 seconds for the reader to exit the **learn mode,** this is announced by two beeps from the local sounder and return to **Day** mode indication.

How to re-learn all keyfobs

Using a recognised *learnt keyfob* the *reader* can re-learn up to 8 keyfobs. You may want to do this after a keyfob is lost or stolen and you want to prevent the use of it to operate the system. Keyfobs must be learnt by each *reader* installed in a system

⚠ By entering the **learn mode** in this manner you will erase all recognition of previously learnt keyfobs at the reader, except for the one used to enter the **learn mode.**

① Ensure the *reader* is in the day mode with the **Day** light lit. You must have one *learnt keyfob* and up to 7 further keyfobs to be learnt. Have all the keyfobs available.

ℹ When an unrecognised keyfob is offered to the *reader* it will cause the **Error** light to be lit and continuous sound to be emitted from the local sounder.

Reader
Hold for 20 seconds — Learnt keyfob
◀) keyfob recognised beep
◀) x 5 rapid beeps

② Hold the recognised *'learnt' keyfob* slightly touching the centre depression on the *reader* and keep it there without movement for 20 seconds. Initially you will hear a keyfob recognition beep and 10 seconds later five rapid beeps from the local sounder. After 20 seconds you will hear another keyfob recognition beep tone from the local sounder. You are now in the **learn mode.** The **Learn** light will give a flashing indication and the **ZONE 1** light changes from flashing to steady On indication to recognise the *learnt keyfob*. The *reader* is now ready to learn the *next keyfob*, signalled by the flashing of **ZONE 2** indicator. Withdraw the learnt keyfob.

◀) x 5 rapid beeps

ℹ In the **learn mode** when an already learnt keyfob is offered to the *reader,* an Error indication will be given.

ℹ The **learn mode** will timeout after 10 seconds if no actions is taken to learn the next keyfob

Reader
Next keyfob
◀) keyfob recognised beep

③ Offer the *next keyfob* slightly touch it on the centre depression of the *reader*. A learnt indication is given of the *next keyfob* when the flashing **ZONE** indicator changes to steady On indication and there is a recognition beep given by the local sounder. Shortly after the next numbered **ZONE** indicator will start flashing. Withdraw the learnt keyfob.

You now have up to 10 seconds to start learning the another keyfob.

◀) x 2 beeps

④ Repeat ③ to learn the *next keyfob.*

Once all the keyfobs are recognised 'learnt' by the *reader* wait for just over 10 seconds for the reader to exit the **learn mode,** this is announced by two beeps from the local sounder and return to **Day** mode indication.

Fault finding

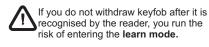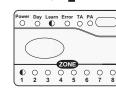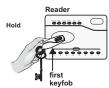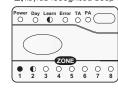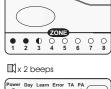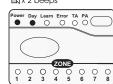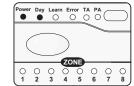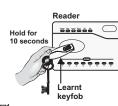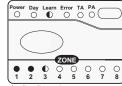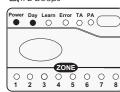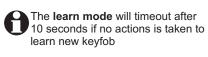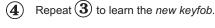| Indication given..	what it means..	and what you could do.
◑ **Error** fast rate flash twice per second	The jumper link on the PCB has been left fitted following learn operation	Remove the jumper link and keep in safe place for future use.
◑ **Error** slow rate flash 1s On and 1s Off	Non volatile memory (NVM) communication error	Re-learn all keyfobs and if problem persists then contact technical support for help
◀) Error beep ● **Error**	You are using an already *learnt keyfob* during **learn** operation or you are offering an *unlearnt keyfob* to the reader during **normal** use	Offer an *unlearnt or learnt keyfob* respectively.

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