



SmartCell Wireless Gateway Installation Manual

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Contact information and product documentation

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Important information

Limitation of liability

To the maximum extent permitted by applicable law, in no event will KGS Fire & Security be liable for any lost profits or business opportunities, loss of use, business interruption, loss of data, or any other indirect, special, incidental, or consequential damages under any theory of liability, whether based in contract, tort, negligence, product liability, or otherwise. Because some jurisdictions do not allow the exclusion or limitation of liability for consequential or incidental damages the preceding limitation may not apply to you. In any event the total liability of KGS Fire & Security shall not exceed the purchase price of the product. The foregoing limitation will apply to the maximum extent permitted by applicable law, regardless of whether KGS Fire & Security has been advised of the possibility of such damages and regardless of whether any remedy fails of its essential purpose.

Installation in accordance with this manual, applicable codes, and the instructions of the authority having jurisdiction is mandatory.

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Advisory messages

Advisory messages alert you to conditions or practices that can cause unwanted results. The advisory messages used in this document are shown and described below.

WARNING: Warning messages advise you of hazards that could result in injury or loss of life. They tell you which actions to take or to avoid in order to prevent the injury or loss of life.

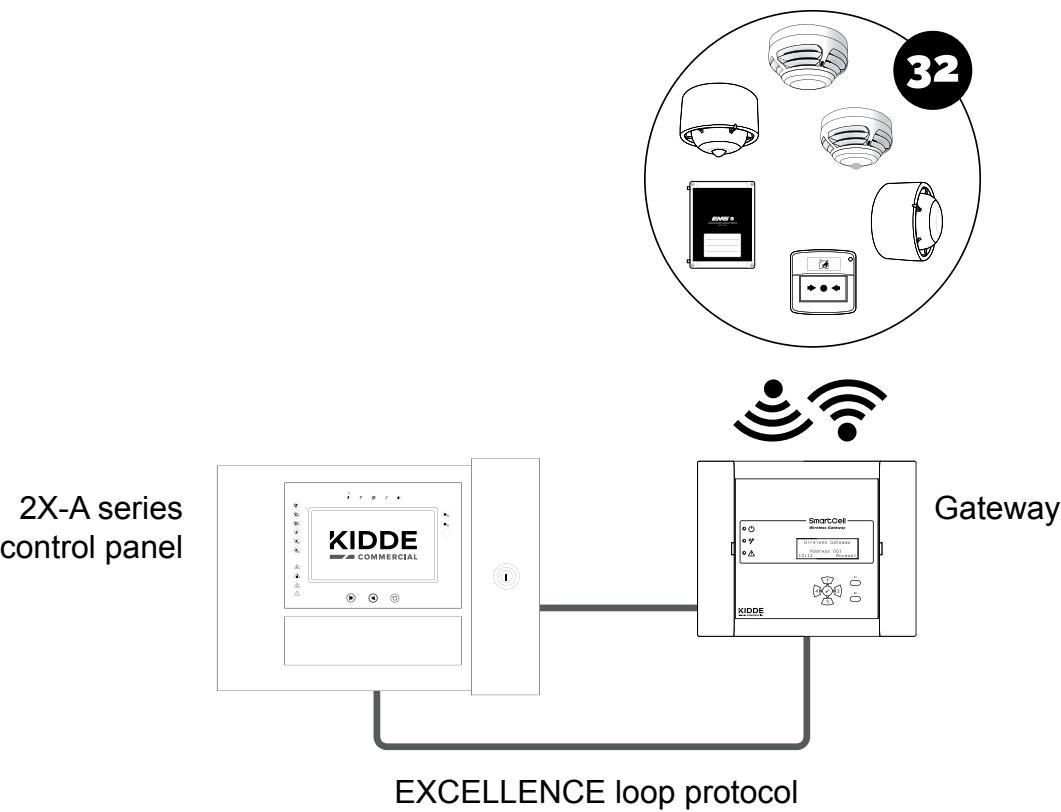
Caution: Caution messages advise you of possible equipment damage. They tell you which actions to take or to avoid in order to prevent the damage.

Note: Note messages advise you of the possible loss of time or effort. They describe how to avoid the loss. Notes are also used to point out important information that you should read.

Introduction

The SmartCell Wireless Gateway connects to the loop of a 2X-A Series Fire Alarm Control Panel running the EXCELLENCE loop protocol.

A maximum of 4 Gateways can be connected to a loop and each Gateway can accommodate up to 32 wireless fire devices.



Ordering information

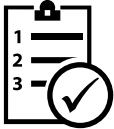
Part No	Product description
SH-14-3201-0001-99	Wireless Gateway (Loop Powered)

Installation

Pre installation



The installation must conform to applicable local installation codes and should only be installed by a fully trained competent person.



The procedures outlined in this installation guide must be carefully followed.



The Gateway includes components which are susceptible to damage from Electro Static Discharge (ESD). These components could be permanently damaged through routine handling, if precautions are not observed. Where handling is required, adequate earthing precautions should be taken, e.g. use an earthed wrist strap.



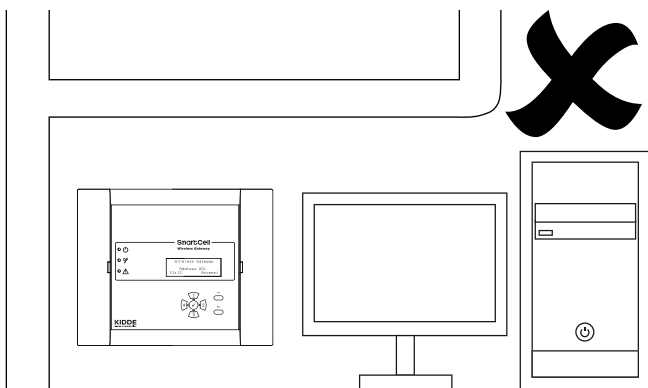
To ensure correct operation, products must be used within the specified environmental operating conditions.

Mounting location guidelines

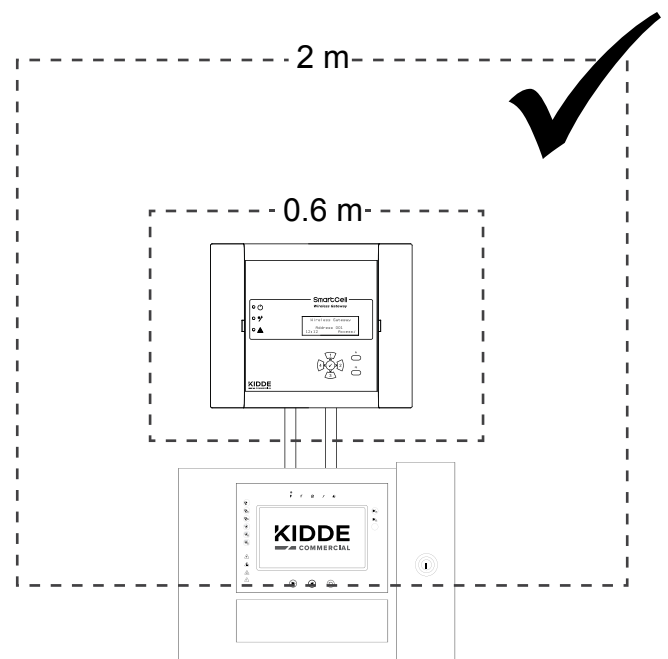


For optimum wireless performance, the following must be observed:

- Ensure the Gateway is not installed within 2 m of other wireless or electrical equipment (not including the control panel).
- Ensure the Gateway is not installed within 0.6 m of any metal work.

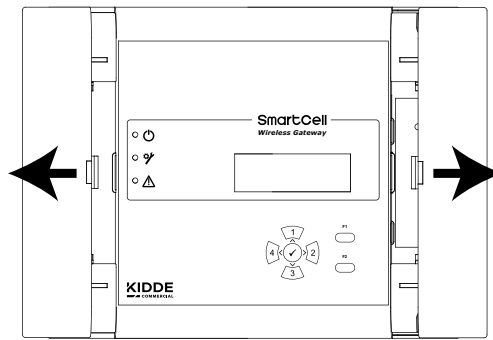


Caution: Never site the Gateway near metal work or electrical equipment

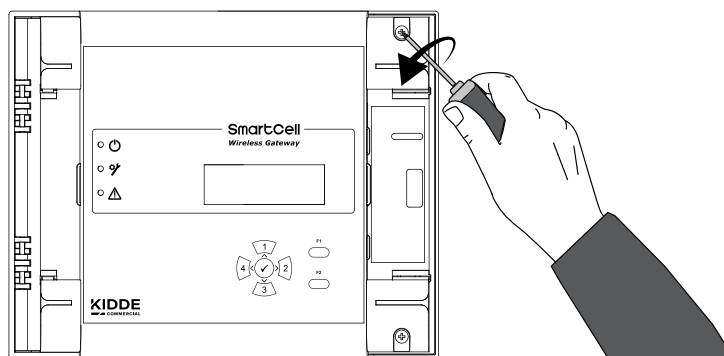


Open the Gateway

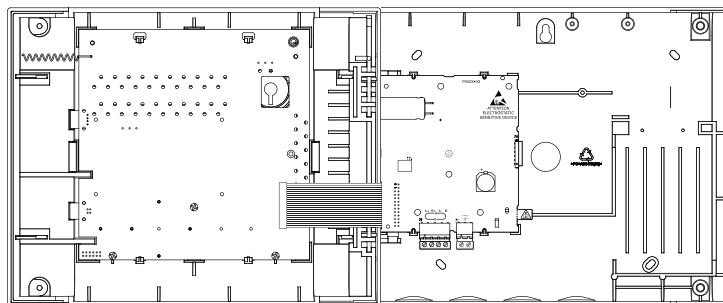
Unclip the side panels.



Loosen the two screws.



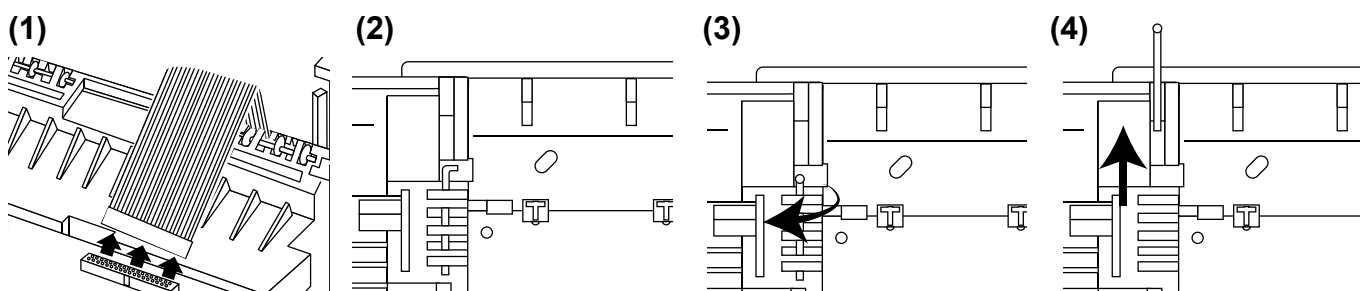
Open the door.



Optional door removal

Disconnect the ribbon cable.

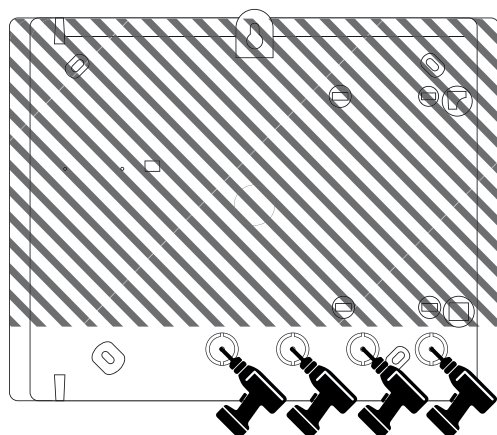
Turn and release the door hinges.



Remove cable access points

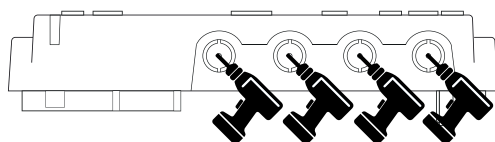
Drill the cable entry points as necessary.

Rear side view



Caution: No cable access at the top of the unit!

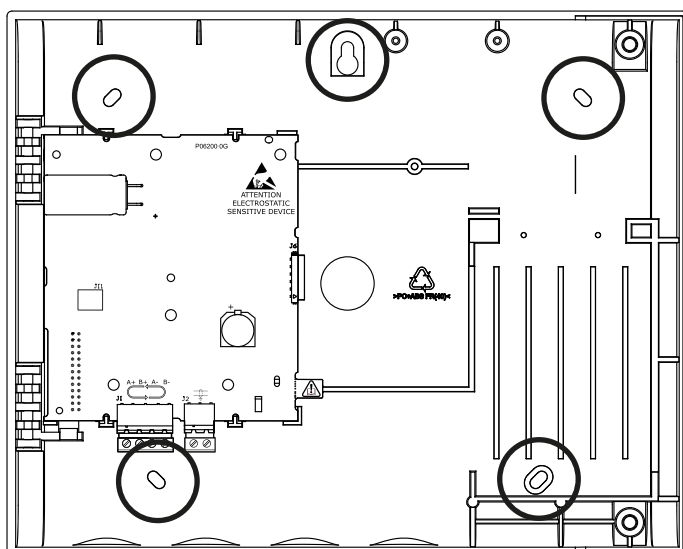
Under side view



 = Available entry point

Fix to the wall

All five circled fixing positions are available for use as required.

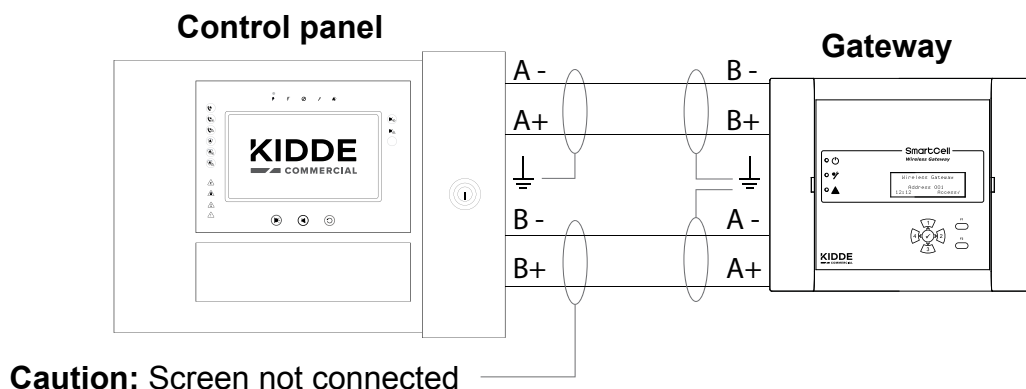


Note: The supplied back box mounting template can be used to drill the fixing positions, if required.

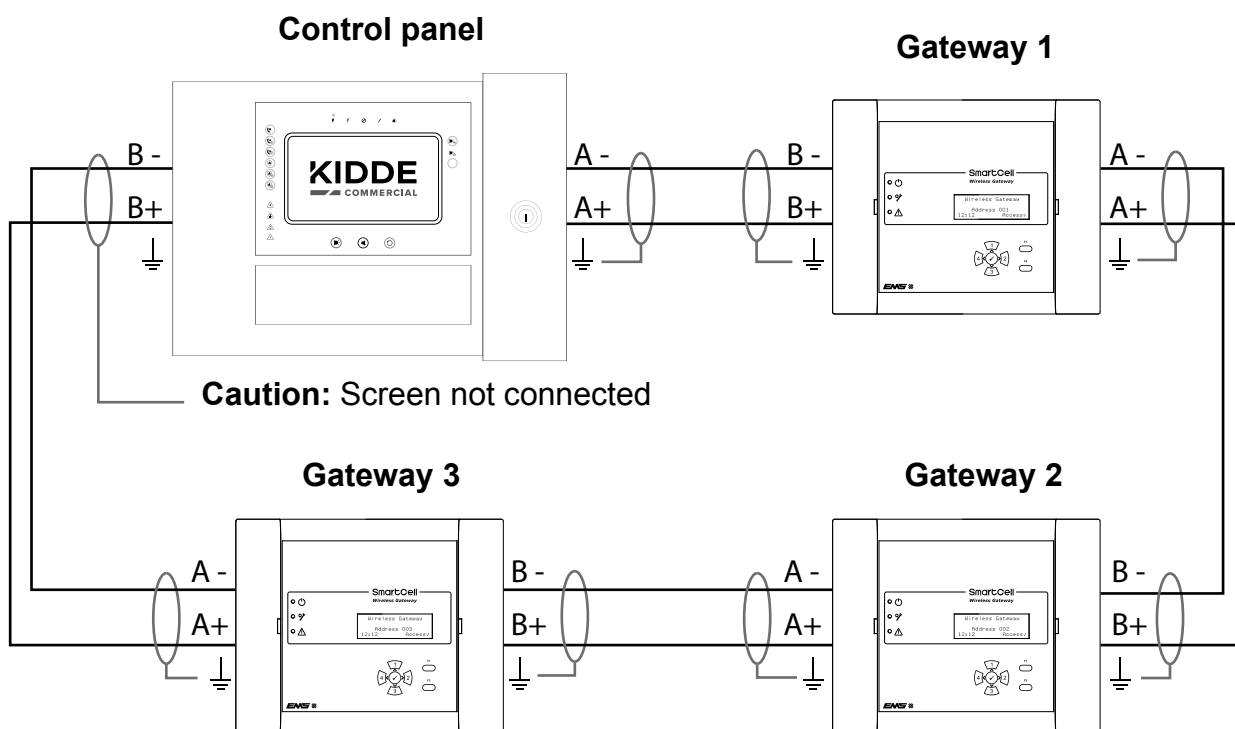
Gateway to 2X-A wiring connections

The Gateway has up to four separate sets of loop connections: A-, A+, B- and B+ for each available loop. There are also two screen connections. The loop cable must be passed through the entry points provided. Typical connections are detailed below:

Single Gateway

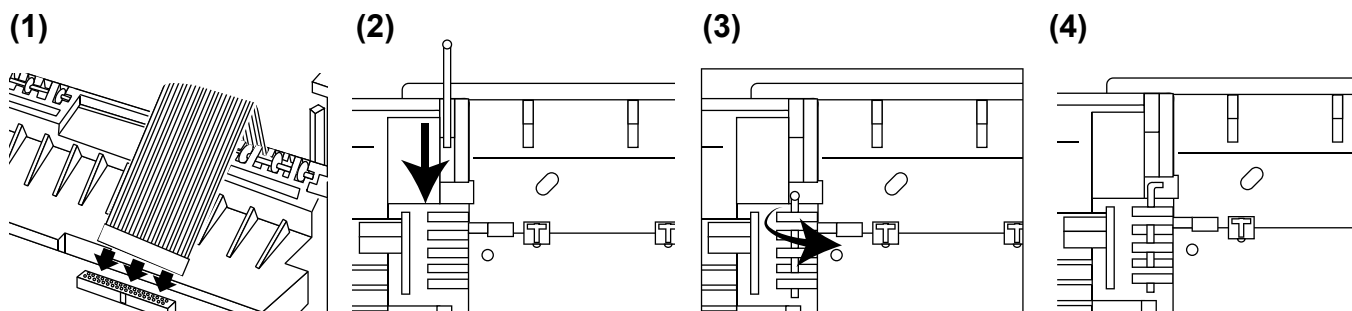


Multiple Gateways (maximum 4 per loop)



Refit the door

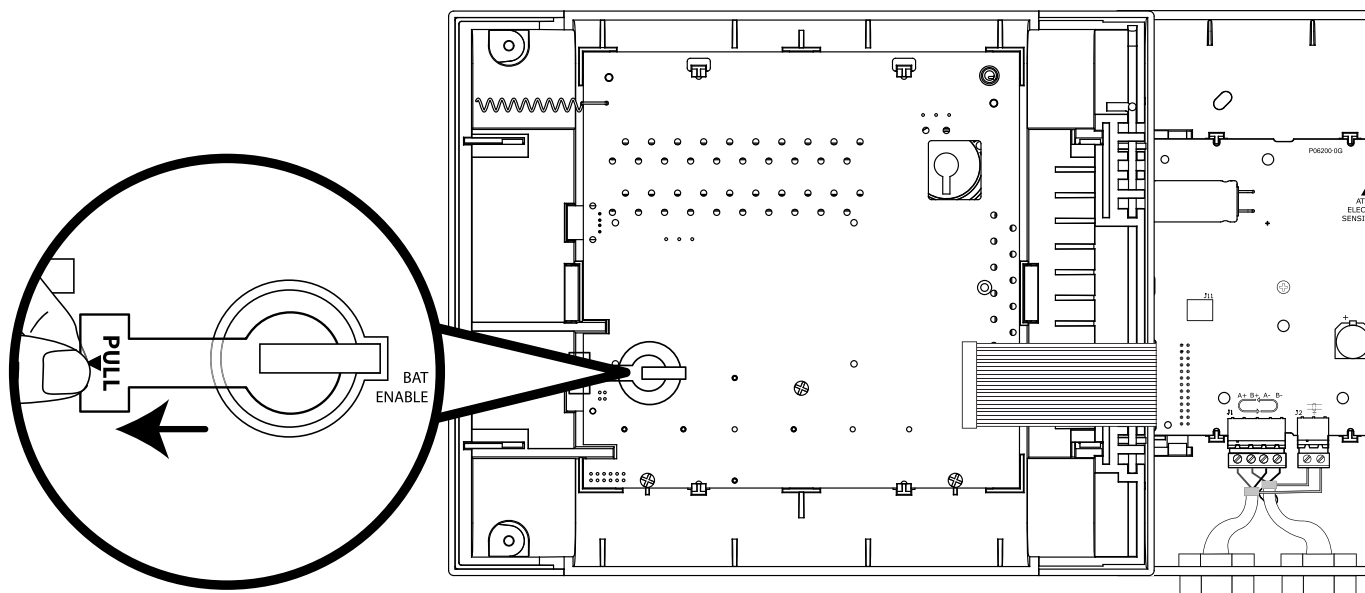
Refit the door.



Caution: Ensure the ribbon cable and the doors hinges are securely fitted.

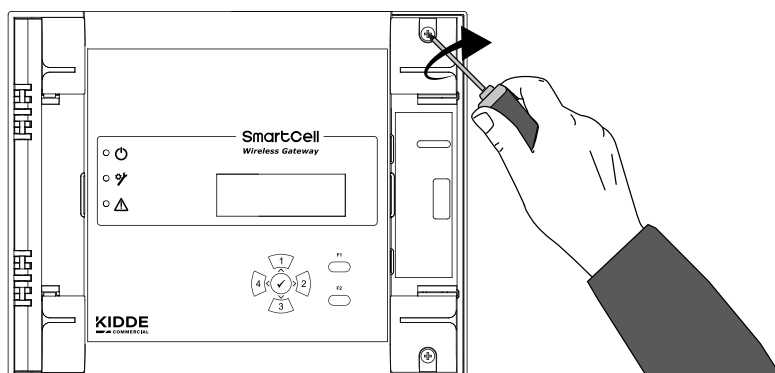
Remove 3 V battery tab

The 3 V battery tab located on the back of the door must now be removed.

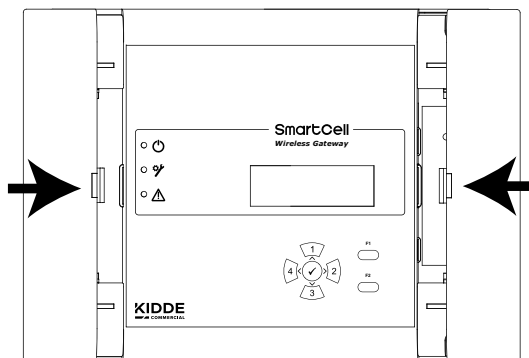


Close the Gateway

Reassemble the Gateway.



Caution: Do not overtighten the screws. Max torque setting = 0.55 Nm.



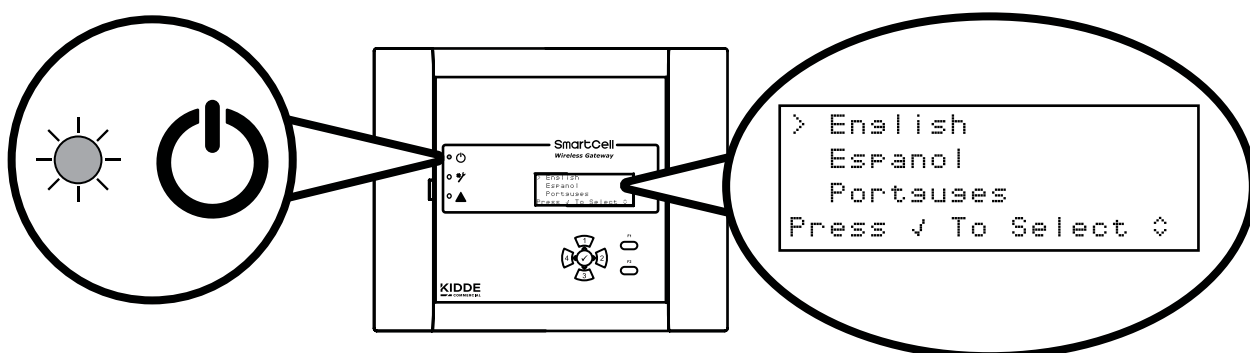
Apply power

Apply power to the Gateway.

The green power LED will illuminate.

The other LEDs should be extinguished.

The screen should also display language selection options.

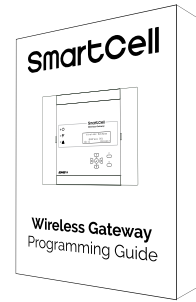


Configuration

The system can now be programmed.

Note: Refer to the Wireless Gateway Programming Guide (MK407) for details of compatible devices and full programming information.

Free to download from firesecurityproducts.com



Specification

Operating temperature	-10 to +55 °C
Storage temperature	0 to +30 °C
Typical application temperature	+25 °C
Humidity	95% noncondensing max.
Location	Type A: for indoor use
IP rating	IP30
Operating voltage	17 to 29 VDC
Operating current	
<i>Typical</i>	55 mA @ 17 VDC
<i>Maximum</i>	85 mA @ 17 VDC

EN54-17 Isolator Data

<i>Maximum line voltage (Vmax)</i>	29 VDC
<i>Minimum line voltage (Vmin)</i>	17 VDC
<i>Minimum voltage at which the device isolates (Vso min)</i>	14 VDC
<i>Maximum voltage at which the device isolates (Vso max)</i>	15.5 VDC
<i>Minimum voltage at which the device reconnects (Vsc min)</i>	14 VDC
<i>Maximum voltage at which the device reconnects (Vsc max)</i>	15.5 VDC
<i>Maximum rated constant current (Icmax)</i>	1 A
<i>Maximum switch current (Ismax)</i>	1.2 A
<i>Maximum leakage current (ILmax)</i>	<1 mA
<i>Maximum series impedance (Zcmax)</i>	<0.2 Ohm

**RTC & event log
battery backup**

1 x 3 V lithium manganese dioxide coin cell battery.
Varta: CR2032 (6032101501)
Murata: CR2032

WARNING:

- Risk of fire, explosion, and damage to the Gateway if the battery is replaced by an incorrect type.
- Crushing or cutting the battery may result in an explosion.
- Exposing the battery to extremely high temperatures or extremely low air pressure may cause an explosion or the leakage of flammable liquid or gas.

Maximum USB flash drive 128 GB, MBR FAT32, 90 mA*.

** Using high-powered USB flash drives outside these specifications may cause the Gateway to become unstable.*

Operating frequency 868 to 870 MHz

Output transmitter power 14 dBm/ 25 mW

Signalling protocol X5

Panel protocol EXCELLENCE

Recommended loop cable specifications 0.13 to 3.31 mm² (26 to 12 AWG) shielded or unshielded twisted-pair (52 Ω and 500 nF max.)

Maximum loop cable length 2 km (using 0.8 mm² cable)

Dimensions (W x H x D) 275 x 220 x 80 mm

Regulatory information

Manufacturer

KGS Manufacturing Poland Sp. z o.o.
Ul. Kolejowa 24. 39-100 Ropczyce, Poland

Year of manufacture

See devices serial number label

Certification



CPR DoP

DoP0081

Approved to

EN54-13:2005. Fire detection and fire alarm systems. Part 13: Compatibility assessment of system components.

EN54-17:2005. Fire detection and fire alarm systems. Part 17: Short-circuit isolators.

EN54-18:2005. Fire detection and fire alarm systems. Part 18: Input/output devices.

EN54-25:2008. Incorporating corrigenda September 2010 and March 2012. Fire detection and fire alarm systems. Part 25: Components using radio links.

European Union directives

Kidde Global Solutions declares that this device is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address:
firesecurityproducts.com



2012/19/EU (WEEE directive): Products marked with this symbol cannot be disposed of as unsorted municipal waste in the European Union. For proper recycling, return this product to your local supplier upon purchase of equivalent new equipment, or dispose of it at designated collection points. For more information see recyclethis.info

Dispose of your batteries in an environmentally friendly manner according to your local regulations.