

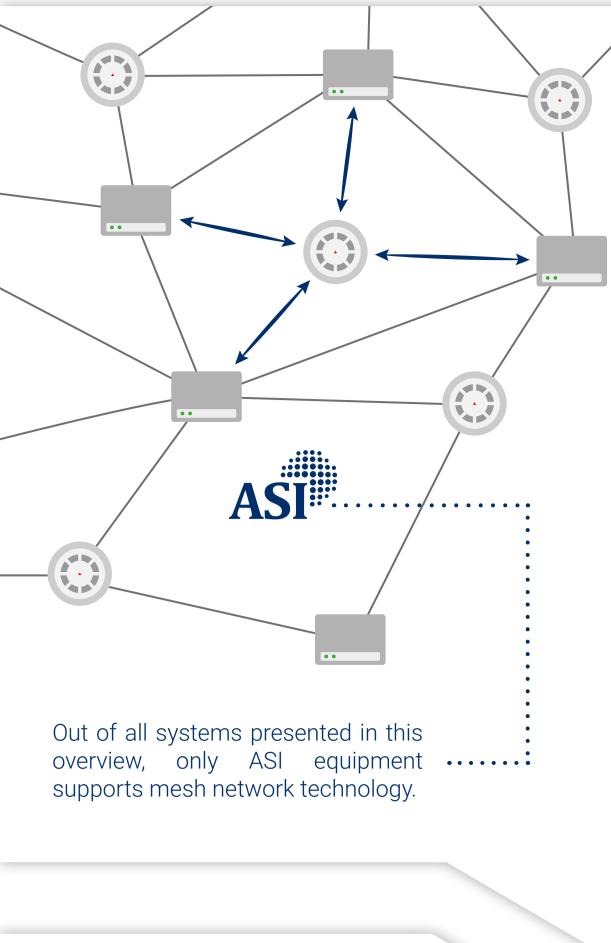
# Which Wireless Alarm Is the Most Advanced?

Nowadays, many of the fire alarm manufacturers provide their own

line of wireless devices in one form or another. This trend is explained by the fact that radio-frequency technologies are becoming both cheaper and more sophisticated, making wireless alarm systems a reliable and cost-effective replacement for wired counterparts. This overview is aimed at comparing the ASI wireless system to 3 international manufacturers other solutions from

demonstrating why it is one of the best choices when it comes to wireless fire protection.



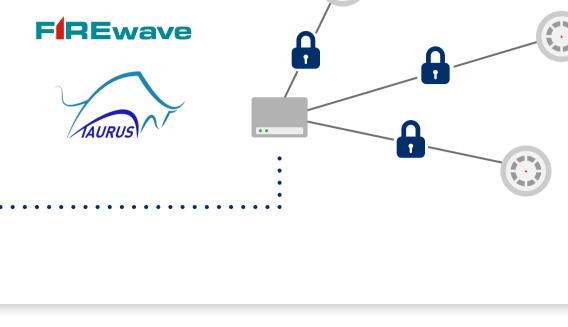


## network In a mesh network, devices are not tied to a specific expander and can dynamically find pathways to the central translator. This substantially enhances the

Mesh

design and installation process since there's no need to manually configure the network topology. Systems with no mesh network support can be sometimes tricky to install - you may need to relink devices a couple of times before you find the

expander with the strongest connection. EMS 8



### capacity Systems with large capacity allow you to build one big wireless system that will cover your whole building. Otherwise you will need to install several translators each controlling its own separate

System

network. 2000



126

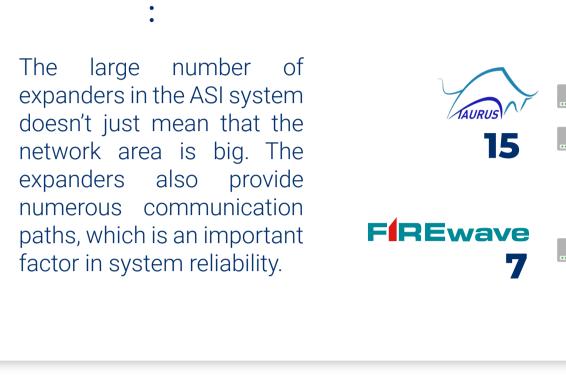
**FREwave** 

in such a way that up 2000 wireless devices can work in the same building. Number of devices per expander

# expanders Expanders and similar devices act as communication nodes in a wireless network. The more nodes the network has, the bigger the area it's able to cover.

Number of

126



#### While installing a wireless fire alarm you may face a situation where you need to link a detector to a specific expander, because it provides the strongest connection. But that expander may have already reached its limit on linked devices. This limit is an important factor in the flexibility and configurability of the system.

The feature also means that the ASI system is well-suited for buildings



1200 m

# 1000 m

••••• 600 m

Big communication range in open air is an indicator of how stable the

connections in the system are going to be in buildings.

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Undisclosed

Max communication range

between ASI expanders in

open air is 2 km. Multiply that by 10 and you get the

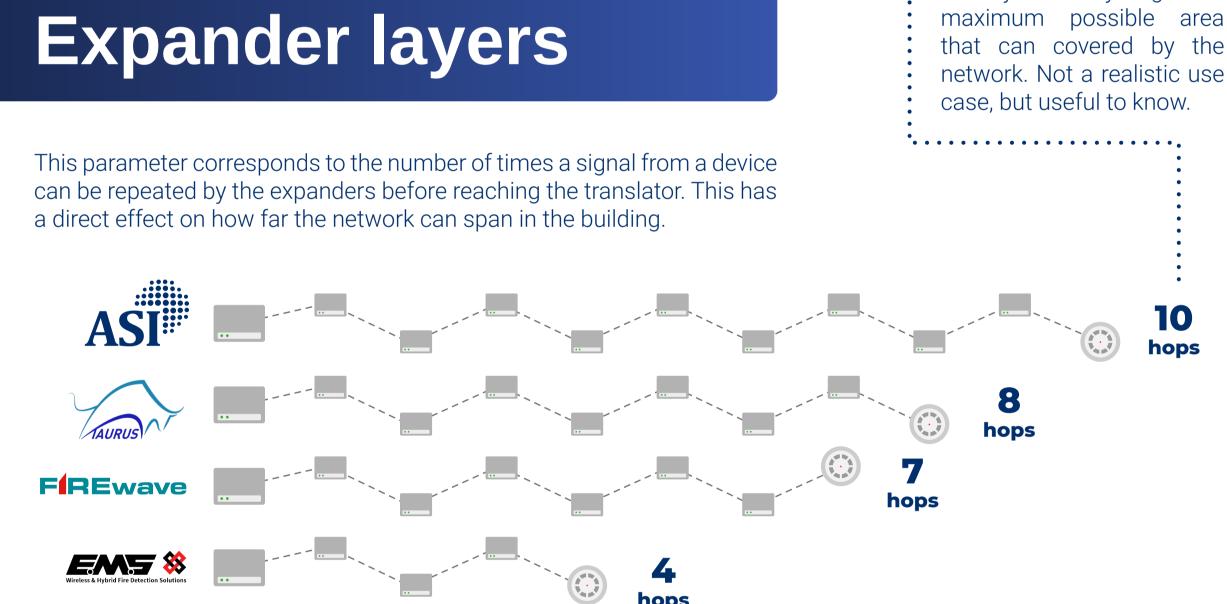
are

stronger, and the distances

can reach up to 2 km.

even

expanders





Long battery life reduces the expenses required

for system maintenance and makes a wireless

alarm a cost-effective fire protection solution.

years

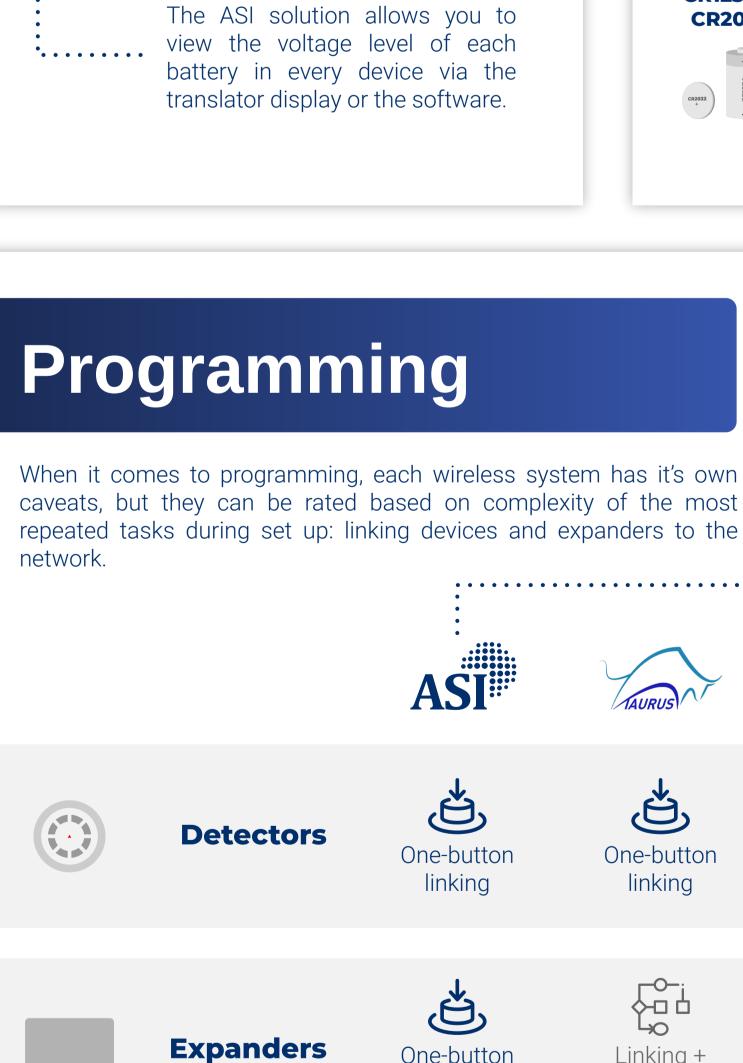
years

years

**Battery life** 

EMS 🕸

**F**REwave



**Battery type** Maintenance costs greatly depend on the number and the type of batteries used in the devices. CR123A **CR123A CR2032** 

Important note: ASI uses generic mass

production batteries, rather than proprietary

battery packs that are only available from the

**CR123A × 2** 

EMS 🖇

 $AA \times 6$ 

CR2032

**FREwave** 

**CR123A +** 

**CR2032** 

manufacturer.

Mesh network plays a big role in making the installer's job easier: expanders in the ASI system are programmed just like other devices, and the system automatically arranges them in a network. **FIREwave** Multi-step One-button One-button linking linking process

Linking +

setting up

topology



it meets all project requirements.

**FIREwave** 

**Final notes** 

linking

Heatself

Linking +

setting up

topology

**Product range** 

Miticiterio Call Point sounder



sounder

Linking +

setting up

topology

competitors. In addition, it also has a versatile product range, incorporating a wireless model for all essential types of detectors. This makes ASI one of the top choices out of all wireless systems in the fire alarm market. **Clarifications** Information on communication range, battery life and battery type is provided for optical smoke detectors. Specifications

can differ across the product range, e.g. sounders may use a different type of power supply.

The wireless system from ASI provides highly advanced technical specifications in terms of communication range and

power consumption. Support for mesh network technology also puts the system a step ahead of some of its

#### FireCell Datasheet Pack [http://emsgroup.co.uk/wp-content/uploads/2018/11/October-2018-FireCell-Datasheet-Pack-Compilation.pdf] FireCell Frequently Asked Questions [http://emsgroup.co.uk/support/faqs/] MK99 FireCell Setup Guide [http://emsgroup.co.uk/wp-content/uploads/2018/11/MK99-FireCell-Setup-Guide-Iss-8-V3-Software.pdf]

References

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Wirelex Software V6.3.0 User Manual [https://www.argussecurity.it/technical-services/downloads/c1-manuals-and-operating-instructions/page/8]

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