



Aspire smart^{sync}TM

Wireless Nurse Call Solution

smart^{sync}TM Explained

smart^{sync}TM is a new and innovative approach to wireless nurse call communication. Developed by Static Systems' in-house teams it achieves the fundamental requirement of facilitating fast system response times for life-critical calls using standard, off-the-shelf batteries to power devices.

It's the technology that puts Aspire smart^{sync}TM above the competition.

At a glance:

Our **smart^{sync}TM** technology synchronizes all wireless devices to within 2 milliseconds to achieve:

- **A truly wireless system**
- **Substantial reduction in power consumption**
- **Fast call initiation times** comparable with wired systems
- **Secure 'two-way' health checking**
- **Full monitoring** with 'battery low' alert
- **Missing device notification**
- **High system integrity and more robust communication** including message verification before raising a call
- **Reduced maintenance** and improved whole life costs
- **Reliable system backup** on SD card
- **Full HTM 08-03 compliance**
- **Meets European Standard ETSI EN300 220-1** for short range devices operating at 868 MHz
- **Uses standard Alkaline AA and D cell batteries to power devices**, including over door units and follow lamps



The challenge

Until **smart^{sync}TM**, no design team had engineered a solution with acceptable response times that could adequately reduce the time wireless devices spend waiting to receive a message such that off-the-shelf batteries could be used. As the UK's leading provider of nurse call systems we like a challenge and our engineers were determined to find a solution. We have...

The solution

We have achieved a way to synchronize all our wireless devices to within 2 milliseconds, substantially reducing the time a device is required to remain awake to ensure a message is not missed.

Because our wireless devices are allowed to sleep for longer - only waking up at the precise moment when other devices will be sending messages to it and then immediately going back to sleep - significantly less battery power is consumed. This obviously increases battery life.



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And there's more...

Truly wireless

So substantial are the power savings achieved with **Aspire smart_{sync}[™]**, that the range now includes wireless over door units and follow lamps powered using standard off-the-shelf batteries.

Two-way health checking

In addition to doing great things for battery life, **smart_{sync}[™]** brings other advantages. As devices are only waking up for the shortest possible time, they can afford to wake up more often to perform other tasks including 'two-way' health checking.

All 120 devices are checked within 2 minutes, making **Aspire smart_{sync}[™]** the most robust wireless nurse call system on the market and putting it on a par with the performance of hard wired nurse call systems.

Indication you can trust

When a call is raised, the reassurance LED on the call unit will only illuminate when the message has been received by the **Aspire smart_{sync}[™]** Gateway and confirmed back to the originating device; giving meaningful reassurance to the patient and further increasing the integrity of the system.

Fast notification that devices are missing

A device being taken out of range or damaged, a signal being blocked, batteries being removed, are all recognised within minutes and an alert raised.

Reliable system back-up

System configuration is backed-up to an SD card within the **Aspire smart_{sync}[™]** Gateway, meaning simply swapping the SD card to a new unit will quickly get the system operational again in the event of a system fault.



Truly wireless, battery powered units made possible using smart_{sync}[™] technology



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