# SH-14-3201-0001-99

## Excellence SmartCell  Addressable Wireless Gateway

### General

The SH-14-3201-0001-99 is a Excellence protocol gateway for interfacing a zone of wireless SmartCell fire alarm devices into a wired Excellence addressable fire alarm system. It enables these wireless devices to be managed directly from the control panel and provides a seamless interface between the hardwired components and the wireless zone.

### System design

The Excellence gateway comprises of a wireless transceiver capable of managing up to 32 wireless devices. An LCD display is provided on the gateway along with function buttons to allow programming and diagnostics to be carried out for associated devices locally. The interface is addressed on the loop electronically. A total of 4 gateways may be fitted onto a single fire alarm control panel loop controlling up to 124 wireless loop devices.

### Seamless addition of wireless devices

Every wireless device controlled through the Excellence gateway has its own unique address with which the main fire alarm control panel communicates with it, providing the same system capabilities as directly wired devices. A full range of wireless detection and alarm devices is available, including multi-sensors capable of dual sensing heat and smoke, smoke only or heat only configurations, manual call points, notification devices (sounders with and without VIDs or VADs) as well as input/output units and all-in-one devices.

### Full flexibility

Wireless devices are featured in many fire detection and alarm systems. They are specified where the installation of hard wiring would be difficult or impossible to complete e.g. decorative finishes to the interior of the protected building preclude wiring runs or where the time scales to complete installation are minimal. The Excellence gateway allows the system designer full flexibility in selecting which devices on the loop are to be hardwired and which are to be wireless.

### Software Compatibility

Recommended minimum firmware/software versions for full compatibility:

2X-AT Panel V5.5.23
SmartCell Devices V2.22
Configuration Utility V5.5.0.6




### Details

- Quick and easy to install
- Freely programmable to suit the protected area
- Automatic selection from 32 wireless channels for reliable signalling
- Multipath technology ensures a robust wireless solution
- Diversity transceivers allow maximum operational range

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## Technical specifications

### General

| | |
|---|---|
| Status indication | 80 character LCD display |
| Compatibility | Excellence series addressable systems |
| Addressing method | Electronic |
| Address range | 1 to 128 |
| Wireless frequency | 868 to 870 MHz |

### Electrical

| | |
|---|---|
| Power supply type | Zasilanie pętlą |
| Operating voltage | 17 to 29 VDC |
| Current consumption | 55 mA (typical)<br>85 mA (max) |
| Configuration | < 4 Gateways per loop |
| Output transmitter power | 14 dBm / 25 mW |

### Isolation

| | |
|---|---|
| Type | Negative line break |
| Loop current | 17 to 29 VDC |
| Series resistance | < 0.2 Ω |
| Switch current | < 1.2 A |
| Leakage current | < 1 mA |
| Isolation voltage | 14 to 15.5 VDC |
| Reconnect voltage | 14 to 15.5 VDC |
| Constant current | < 1 A |

### Physical

| | |
|---|---|
| Physical dimensions | 270 x 220 x 80 mm (W x H x D) |
| Net weight | 1.45 kg |
| Colour | Biały (RAL 9016) |
| Mounting type | Vægmontering |
| Material | Plastic |
| Cable specification | 0.13 to 3.31 mm² (26 to 12 AWG) shielded or unshielded twisted-pair (52 Ω / 500 nF max.) |
| Loop length | 2 km (using 0.8 mm² cable)<br>3 km (using 1.5 mm² cable) |

### Environmental

| | |
|---|---|
| Vandal proof | No |
| Operating temperature | -10 to +55°C |
| Storage temperature | 0 to +30°C |
| Relative humidity | 0 to 95% noncondensing |
| Environment | Indendør |
| IP rating | IP54 |
| Application temperature | 25 °C (typical) |

### Regulatory

| | |
|---|---|
| Compliancy | CE, ICASA, REACH, RoHS 3, UKCA, WEEE |
| Certification | CPR |
| Standards | EN54-13 (Upcoming), EN54-17, EN54-18, EN54-25, ETSI 300-220 |

### Compatible products

| Category | Reference | Description |
|---|---|---|
| Detection device | SH-21-0200-000 1-99 | SmartCell Dual Smoke/Heat Detector |
| Detection device | SH-51-0100-000 1-06 | SmartCell Fire Manual Call Point - Sweden |
| Detection device | SH-51-0100-000 1-18 | SmartCell fire Manual Call Point - Poland |
| Detection device | SH-51-0100-000 1-99 | SmartCell Fire Manual Call Point |
| Detection device | SH-51-0300-000 1-04 | SmartCell Hausalarm Manual Call Point |
| Door Holders | SH-44-0200-000 1-99 | SmartDoor (white) |
| Door Holders | SH-44-0300-000 1-99 | SmartDoor (black) |
| Interface unit | SH-41-0200-000 1-99 | SmartCell Dual Input/Output Device for Fire Zones |
| Notification device | SH-22-0200-000 1-99 | SmartCell Dual Smoke/Heat Detector and Combined Sounder |
| Notification device | SH-23-0210-000 1-99 | SmartCell Dual Smoke/Heat Detector and Combined Sounder-Beacon (VAD Red Flash) |
| Notification device | SH-23-0220-000 1-99 | SmartCell Dual Smoke/Heat Detector and Combined Sounder-Beacon (VAD White Flash) |
| Notification device | SH-31-0100-000 1-18 | SmartCell Red Sounder - Poland |
| Notification device | SH-31-0100-000 1-99 | SmartCell Red Sounder |
| Notification device | SH-31-0200-000 1-99 | SmartCell White Sounder |
| Notification device | SH-32-0110-000 1-99 | SmartCell Red Sounder and Wall-Beacon (VAD Red Flash) |
| Notification device | SH-32-0120-000 1-99 | SmartCell Red Sounder and Wall-Beacon (VAD White Flash) |
| Notification device | SH-32-0210-000 1-99 | SmartCell White Sounder and Wall-Beacon (VAD Red Flash) |
| Notification device | SH-32-0220-000 1-99 | SmartCell White Sounder and Wall-Beacon (VAD White Flash) |
| Notification device | SH-33-0110-000 1-99 | SmartCell Red Sounder and Ceiling-Beacon (VAD Red Flash) |
| Notification device | SH-33-0120-000 1-99 | SmartCell Red Sounder and Ceiling-Beacon (VAD White Flash) |
| Notification device | SH-33-0210-000 1-99 | SmartCell White Sounder and Ceiling-Beacon (VAD Red Flash) |
| Notification device | SH-33-0220-000 1-99 | SmartCell White Sounder and Ceiling-Beacon (VAD White Flash) |

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