

SAGITTARIUS

ARGUS SECURITY



Wireless

Defining new standards in fire detection technology



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Defining new standards in fire detection
Sagittarius Wireless employs bi-directional

Sagittarius is complete with a comprehensive range of wireless intelligent detectors and

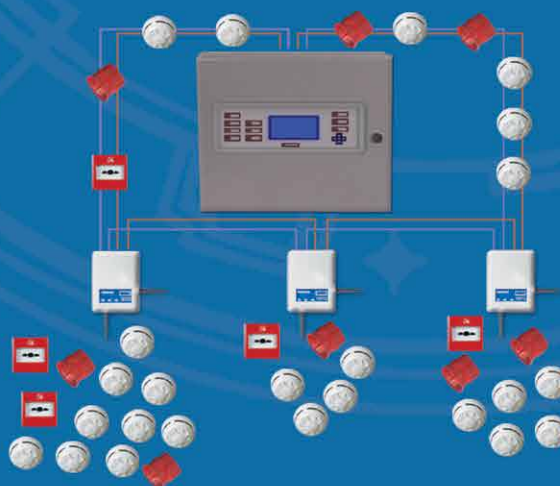
Sagittarius is highly suitable for:

- Difficult installations and remote buildings with restricted access
- Sensitive and historical sites
- Minimal disturbance to the surroundings
- Temporary systems and time limited installations
- Rapid and easy installation due to wire-free components
- Asbestos and other risk environments
- Uneconomical installations
- Linking of System

Product Overview

Sagittarius offers a complete range of detectors, all fully compliant with the latest EN54 standards and other auxiliary devices including battery powered system interfaces and audio-visual warning devices. The wireless devices can be seamlessly integrated into a wired intelligent fire system via a VW2W100 translator module that allows the connection of up to 32 wireless devices (detectors, input and output modules, call points, remote indicators and other audio-visual alarm devices). Multiple VW2W100 may be installed on each intelligent loop in order to extend the system capacity. All Argus Security wireless devices carry a 3 year warranty from the date of manufacture.

Sagittarius is based upon a proven protocol and wireless technology derived from the highest demands of the security industry. Sagittarius is designed and approved to the European standard EN54:25 and operates on the European 868MHz frequency but it is also available operating at 434 MHz. The wireless two-way communication provides the highest level of transmission security and reliability. The encrypted signal operates across 6/7 independent channels and with multidirectional antennae. Signal corruption and fade are virtually eliminated. All devices have a nominal range of 500 meters in free air, but the system can be supported by a SGWE wireless expander module to enhance transmission strength in areas of difficult structural architecture. System design and device placement is greatly simplified by an onboard bicolor LED, which indicates device status and communication the signal strength. All Sagittarius components operate on freely available 3v standard lithium batteries, providing a 5 year life on the primary battery and 6 months on the standby cell. Batteries are continually monitored and low battery conditions are automatically communicated to the central fire control panel. Batteries are supplied together with all devices.



technology.
communication protocol ensuring the highest levels of security and reliability.

ies communicating through a sophisticated protocol and providing high reliability and rapid installations.

Sagittarius VW2W100 translator

The VW2W100 wire to wireless translator module enables an existing Sagittarius Interactive fire detection system to be extended with minimum disruption for the end user.

Powered by the control panel loop, the translator processes messages received from the wireless detectors, modules, call points, etc. and transmits full analogue information about the devices to the control panel. The control panel recognizes the translator and the devices as individual addressed points on the loop.

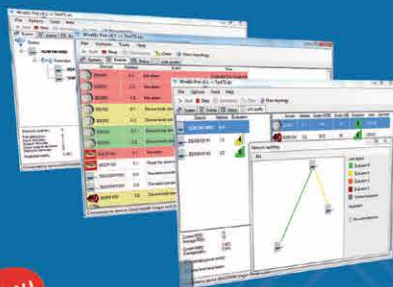


VW2W100 features:

- Bidirectional communication with all other devices
- 868Mhz (or 434Mhz) frequency with 6 (7) transmission channels
- Highly secure and reliable transmission with high noise immunity
- Patented double orthogonal antenna to guarantee reliable communication
- Unique frequency agility algorithm
- Up to 32 devices can be used with each VW2W100

The Wirelex software

Programming and linking the Sagittarius system components is easily accomplished at either the loop translator module or the WIRELEX software installed in a PC. The Wirelex software enables the user to constantly monitor the status of the single devices connected to the system and allows the user to create and export a real map of the existing system in order to monitor in real time the quality of the wireless signal between the translators and expanders.



NEW!

Sagittarius SGSB100 solar base

The latest advances in cutting edge solar technology have enabled Argus Security to design an environmentally conscious product that meets the requirements of the market in providing cost effective devices and reducing the overall product life cycle cost.



The SGSB100 wireless solar base benefits from the latest development of ultra-low power integrated circuits currently available in the market.

Efficient extraction of energy from the latest solar cell technology is optimized and closely matched to the visible light spectrum. The solar base has been designed specifically for indoor use and can effectively operate both on natural (solar indirect/ diffused light) as well as artificial (cold) lights. The battery life can be extended by up to 8 years or more.

The wireless intelligent detectors

SG100 optical

A symmetrical smoke chamber guarantees optimal smoke sensitivity from all directions. The double dust trap protects the smoke chamber from airborne contamination.

SG200 multi-criteria

An advanced algorithm determines the alarm status by analyzing both the volume of smoke within the optical chamber and the temperature variation.

SG350 thermal

Temperature compensation guarantees steady and reliable operation in low and high temperature limits.

A comprehensive radio survey test tool is also available



Decorline

Detectors can be supplied with a range of decorline finishes designed to match many diverse backgrounds and offer an effective and optically attractive solution. The matching detector bases are supplied with the detectors in the same decorline finish.



Sagittarius wireless devices:

SG100 SG200 SG350	The wireless detectors have been designed with a smoke chamber that ensures effective air entry from all directions. A double dust trap protects the smoke chamber from airborne contamination and external light. The SG100 optical detector uses an optical sensing chamber, based on the light scattering principle, and offers superior wide-spectrum detection of smoke. The SG350 wireless thermal detector uses a thermal rate-of-rise detection according to EN 54-5 Class A1R. The detector reacts to a rapid rise in temperature as well as to a maximum temperature of 58°C. The SG200 multi-criteria detector combines optical electronics and thermal sensing with a powerful algorithm.	
VW2W100 SGWE SGCWE	The VW2W100 is a fully intelligent wire to wireless translator module. It allows the use of fully intelligent wireless field devices alongside standard hard wired units. Up to 32 devices can be used with each translator module. The SGWE is a wireless expander and allows increased radio coverage of the VW2W100. Up to 7 SGWE may be configured to any VW2W100 forming a cell cluster. Up to 32 devices can be used with SGWE. The SGCWE conventional expander allows connection of wireless devices to a conventional fire alarm system.	
SGCP100 SGWCP100	The wireless call point has a resettable plastic element which has the look and feel of glass. The element once activated can be easily reset by use of a special key. The SGWCP100 is also available in a weatherproof version and it is rated up to IP67.	
SGRS100 SGRS100/W SGWRS100 SGWRS100/W	The wireless wall sounder is complete with 3 selectable tones and is fitted with a volume control. It is available in red and white colors and also in a weatherproof version. The devices can be supplied complete with the programmed Dutch slow whoop tone.	
SGRS100-AV SGRS100/W SGWRS100-AV	The wireless wall sounder beacon is complete with 3 selectable tones and is fitted with volume control. It is available in red and white colors and also available in a weatherproof version.	
SGRBS100 SGRBS100-AV	The wireless base (platform) sounder is complete with 32 selectable tones and available with a separate plastic top cover. The device is also available with an integrated beacon.	
SGBE100 SGBE100/W	The wireless wall mounted beacon is available in red or white colors and the light output and flash rate can be user selected.	
SGFI200-S	The wireless remote indicator provides visual indication of an alarm when the wireless detector is remotely installed.	
SGMI100 SGMC100 SGMCB100	The SGMI100 supervised input module allows the on/off status of an external device to be transmitted to the VW2W100. The SGMC100 (requires an external power supply) and the SGMCB100 wireless output module allows the activation of an external device via the VW2W100. The wireless modules are supplied in a grey box which allows the installation of conduits.	
SGVA100	The wireless voice annunciator provides up to 3 voice messages each with a maximum of 32 seconds.	
SGBD100	The wireless beam detector provides a detection range between 10 to 100 meters. The device is easily aligned via an on-board laser beam.	
SGSK100	The wireless survey and test kit allows the user to determine the quality of the radio signal between the wireless device and the translator/expander modules. The kit is complete with all necessary equipment and is contained in an aluminum case.	
SGSB100 	The wireless solar base has been designed specifically for indoor use, taking advantages from a new range of dye sensitized PV cell, via the latest development in energy controllers IC's and efficient harvested energy storage means. The PV cell can effectively operate both on natural (solar indirect/ diffused light) as well as artificial ("cold") lights and in a properly implemented installation (> 200 lux available at the solar base on a ten hours /day base) the primary battery life can be extended by up to 8 years or more.	