ATS1236

32 zones 433 MHz wireless receiver DGP

Product overview

The ATS1236 wireless receiver adds wireless capabilities to the Advisor Advanced range of panels.

The wireless expander supports most of the legacy 433 MHz 63-bit transmitters as well as the new generation of 433 MHz LoNa transmitters of which the wireless communication is fully encrypted, avoiding unauthorized interference. Up to 32 wireless sensors and up to 16 keyfobs can be learned in.

The ATS1236 wireless receiver provides two wired zone inputs and one programmable relay output.

Installation and programming

The wireless DGP needs to be installed outside the panel housing in order to assure a maximum wireless range. The 433 MHz wireless solution will monitor the status and presence of each wireless device and will respond in case of an RF jamming condition.

The ATS1236 wireless receiver can be programmed from the keypad as well as from the downloader. The firmware of the module is remotely upgradeable.

Expanders

Expanders are used to expand the number of alarm inputs in an Advisor Advanced system. Expanders allow inputs and outputs/relays to be connected at a location remote from an Advisor Advanced panel. Expanders communicate via poll & reply messages. Detectors, door contacts and other detection devices are connected to expanders that report any change of state to the control panel for processing. Available expanders include support for conventional devices, wireless devices as well as intelligent addressable devices. A special expander is available providing expansion of four to eight intelligent doors or lifts.

Up to 15 or 30 expanders can be connected to an Advisor Advanced depending on the variant.

System databus connection

The system databus is used to connect expanders as well as keypads and readers (RASs) to the Advisor Advanced control panel. Remote devices can be up to 1.5 km from a control panels when using the preferred wiring and cable types. Keypads, readers and expanders have to be connected via a 2 pair twisted and shielded data cable to the system databus connection to achieve this. (WCAT52 is recommended). Daisy chain is the preferred wiring method. The shield of the data cable should be connected to earth at the control panel and should be left disconnected at any other end.

If a failure in communication occurs, the expander remembers the last alarm in a system preventing loss of an alarm due to a short interruption in data communication.



Details

- Expands the Axon panel or Advisor Advanced panel with 32 wireless zones
- Includes two wired zone inputs
- One programmable SPDT Form C relay output
- Supports legacy 63-bit 433 MHz and new LoNa 433 MHz transmitters (one way)
- Use the Aritech 433 LoNa repeater to improve range
- Quick configuration using the Aritech "Learn Mode" technology
- Removable terminals
- EN50131-1/EN50131-3/EN50131-6 Grade 2 Class II, INCERT
- Firmware upgradeable
- Located up to 1500 m from the Axon panel or the Advisor Master panel using WCAT52/54 cable

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Technical specifications

General

Expander type	Wireless expander
Product line	Advisor Advanced, Axon
Connection type	Databus connection
Compatibility	433 MHz 63 bit and 433 MHz LoNa (one way sensors), Advisor Advanced MR 4.2 or higher, Axon MR1.0 or higher
Max. distance from panel	1.5 km
Max. per panel	15 on one panel bus
Specified cable	WCAT52 / WCAT54 or equivalent

System

Addressing	DIP Switches

Inputs

Total	32
No. of wireless zones	32 wireless sensors (one way)
Onboard	2 wired inputs

Outputs

Total	1
Onboard	1
Type of outputs	SPDT Form C relay

Wireless

Operating frequency	433 MHz legacy, 433 MHz LoNa

Electrical

Operating voltage	9.5 to 14.4 VDC
Current consumption	typical 45 mA @ 12 VDC max. 56 mA @ 9.5 VDC
Integrated power supply	No

Physical

Physical dimensions	165 x 115 x 40 mm
Net weight	160 g
Colour	White
Material	ABS plastic

Environmental

Operating temperature	-10 to +55°C
Relative humidity	95% noncondensing
Environment	EN50130-5 ; Class II - Indoor (general)

Regulatory

Compliancy	CE
Certification	CE, EN50131 Grade 2, INCERT

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