# ATS1290N

## Intelligent Addressable Device System bus DGP (IADS bus)

### Product Overview

The ATS1290N expander offers up to thirty-two addressable devices, Devices can be input or also include outputs. Addressable devices are powered through the 2 wire databus. Alternatively, devices can be powered form an external power supply. The addressable bus allows a free wiring topology, making it the best fit for retrofit installations.

### 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.

### 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.

### Functionality

Expanders provide information from remote locations to Advisor Advanced control panels in structured records. Data collected ranges from a wired input state to wireless or addressable device dates to a door state.
Bus devices communicate with the control panel. 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.
Up to 15 or 30 expanders can be connected to an Advisor Advanced depending on the variant.




### Details

- Unique 2/4 wire addressable bus
- Free wiring topology
- Compatible with Axon and Advisor Advanced panels
- Use existing wiring in case of retrofit
- Device configuration through downloader
- Up to 32 addressable devices
- Device can have input and/or output
- ATS1644 plastic enclosure with tamper protection

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## Technical specifications

### General

| | |
|---|---|
| Expander type | Adressierbare Point-ID (PID), Eingabe Expander |
| Product line | Advisor Advanced, ATS Master |
| Connection type | Databus connection |
| Max. distance from panel | 1.5 km |
| Max. per panel | 15 |

### Inputs

| | |
|---|---|
| Total | 32 |

### Outputs

| | |
|---|---|
| Total | 32 |

### Electrical

| | |
|---|---|
| Operating voltage | 10.5 to 13.8 VDC |
| Power consumption | 53 mA (no IADS module connected) |
| Integrated power supply | No |

### Environmental

| | |
|---|---|
| Relative humidity | 95% noncondensing |

### Regulatory

| | |
|---|---|
| Certification | VdS |

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