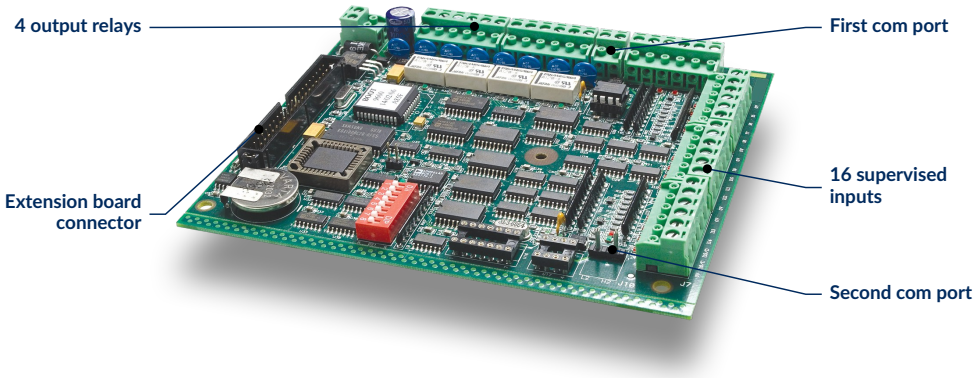
DDS
Building Security Together

DS216 Alarm & Building Management Controller

Overview

The DS216 is an I/O controller which offers the optimal solution for real-time monitoring of alarm points (PIRs, fire detectors, etc.) and output relays. This high capability alarm controller allows many I/O extensions, from a plug-in extension board (EXT-84, EXT-TCP84 or EXT-RLY12) or from up to 3 satellites connected to the second communication bus. The DS216 can be used alone or in association with other DDS controllers, and can be mounted on DIN rails.

- **16 / 24** SUPERVISED INPUTS
- **4 / 64** OUTPUTS
- **4,500** EVENTS
- **1 + 1 (option)** COM. BUSES
- **Extension board with optional TCP/IP** TCP/IP
- **Up to 3** SATELLITES
- **255 / 127** DAILY / WEEKLY TIME ZONES



Benefits

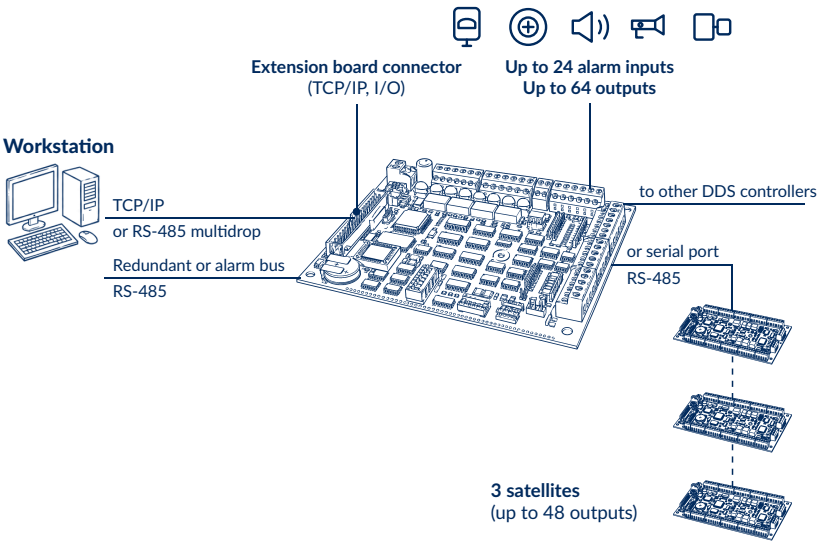
- **Direct supervision** of up to 16 digital supervised inputs and 4 relays, extendable to 24 inputs with a plug-in EXT-84 extension board, and to 64 relays with the plug-in EXT-RLY12 extension board and three satellites on the second communication bus.
- **Real-time alarm events** (up to 4,500 in memory) are transferred to the host through an RS485 bus or a TCP/IP network, by the addition of an EXT-TCP or EXT-TCP84 extension board.
- **Fully supervised inputs.** Each input controls the contact itself (sensor under alarm or not) and the status of the line (normal, short or cut).
- **User-friendly programming** and supervision via Amadeus software. Once programmed, the operating tables downloaded to the DS216 define the system behaviour:
  - Input physical status: Normally Open or Normally Closed
  - Input state: Armed or Disarmed, either manually or according to time zones
  - Reflexes: activation of one or several relays upon detection of specific input status
- **Second communication bus** for redundant communication with the host, activation of reflexes on other controllers (with or without PC intervention) or satellites connection.
- **Easy troubleshooting** thanks to on-board leds (input and relay status, communication process indicators, etc.). The firmware, in flash memory, is easily upgraded from the host.

DS216 I/O capacities

	ON-BOARD	MAXIMUM	EXTENDED WITH
Supervised inputs	16	24	EXT-84 board (+8)
Relays	4	64	EXT-RLY12 (+12), 3 satellites (+48)

Further increase in capability is achieved by connecting several DS216 within the installation.

Architecture



Technical specifications

Board dimensions	**122 × 149 mm**
Board weight	**180 g**
Working voltage	**12 VDC ±20 %**
Consumption	**350 mA**
Alarm input max voltage	**±30 V**
Operating temperature	**−10 °C to +55 °C**
Storage temperature	**−10 °C to +65 °C**
Operational humidity	**10 to 95 % RH**

Approvals

CE RoHS compliant Pb

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Key features

INPUTS, OUTPUTS & LEDS

- Universal input/output controller enabling maximum flexibility
- Supervised inputs 4 states: up to 24 (16 on-board, 8 from extension board)
- Relays: up to 64 (4 on-board, 12 from extension board and 48 from satellites)
- Status leds for relays & inputs:
  - Relay led: on when the relay is activated
  - Input led: on when the input is open or the line is cut

MEMORY & DATABASE

- Last events memory: 4,500
- 128 KB RAM memory (for operating tables and buffer)
- 1MB Flash memory (for firmware)
- On-board lithium battery

PROGRAMMING & AUTONOMY

- Daily time zones: 255
- Weekly time zones: 127
- Holidays / special days: 60 / 120
- Global reflex with or without PC

COMMUNICATION & SECURITY

- RS485 serial ports: 1 + 1 (optional)
- TCP/IP on board (option)
- Redundant communication

POWER, INSTALLATION & RELIABILITY

- Can be mounted on DIN rails
- Firmware upgradable from the host
- Usable alone or with other DDS controllers