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Achieve more with less  
SIMATIC ET 200SP HA  
Distributed I/O system

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## SIMATIC ET 200SP HA: simply thought ahead

Anyone modernizing their process plant today wants to benefit from modern technology, expects an increase in performance and wishes to have opportunities to enter the number one topic of the future: digitalization. Opt for a flexible and scalable distributed I/O system for modern signal transfer from the field to the control level: SIMATIC ET 200SP HA convinces with its compact design, high availability and future reliability. The I/O system enables completely new control cabinet concepts and opens up potential savings in many respects. Convince yourself and lay the hardware foundation for the digital future of your plant!

## Advantages at a glance

- No field device fuses
- No expensive circuit breakers
- Less cabinets
- More (distributed) freedom
- Faster project execution
- Increased productivity
- Highest availability whenever needed



## No field device fuses No circuit breakers



### Send your field device fuses into retirement

The integrated transmitter supply of the SIMATIC ET 200SP HA is equipped with monitored short circuit protection. This eliminates the need for individual fuses for field cabling. This not only saves money and space, but also minimizes maintenance and repair times thanks to channel specific diagnostic information.

### Circuit breakers remain outside

Save costly circuit breakers: With the use of SIMATIC ET 200SP HA, cost effective fuses take over the fusing of the I/O modules with immediate effect. The activation takes place with the aid of integrated pushbuttons on the modules and yet again a few automatic circuit breakers less in the control cabinet!

## Less cabinets



SIMATIC ET 200SP HA Cabinet

### Less space, more performance

The design of the SIMATIC ET 200SP HA I/O system impresses by its compactness and high channel density: Up to 32 channels can be connected via a 22.5 mm wide module. Per rail, 56 I/O modules can be plugged in, believe it or not. This high channel density in combination with:

- unlimited vertical installation possibilities,
- direct marshalling without intermediate wiring,
- integrated short circuit protection, i.e. no need for individual field fuses
- as well as compact fuse protection via fuses instead of circuit breakers

results in maximum economy in the control cabinet.

### What proves this economic efficiency?

Massive saving of cabinets and in improved space utilization in control rooms!

## More (distributed) freedom Faster project execution



SIMATIC ET 200SP HA: Highly available distributed I/O system

### Project management?

#### Standardized, simplified and shortened!

Same terminal block for all 24 V signal types. The separate design of I/O modules and terminal blocks enables the SIMATIC ET 200SP HA to be hardwired without I/O modules. This pre-wiring allows more flexible planning and equipment of the station with I/O modules as required.

### Decentralized design – trunk cables eliminated

SIMATIC ET 200SP HA can be used very flexibly not only in central cabinet rooms, but also in process oriented environments.

Why's that? Our I/O system is tough: Protective coating on all components, approval for increased temperature range plus increased EMC resistance according to NAMUR NE21. Several advantages of PROFINET support come into play for decentralized installations. This ensures even more flexibility and leads to significant savings in sub distributors, trunk cables, patch cords, etc.

# Increased productivity Highest availability whenever needed

## Time savings during installation and operation

The new terminal arrangement and push-in technology allow tool-free wiring. The simple and channel precise short circuit diagnosis saves long troubleshooting. Shorter repair times increase the productivity of man and machine.

## Less downtime – more performance

Depending on requirements, interface modules are available for simple or redundant connection to the automation system. Both the extension of stations and the exchange of modules are possible during operation.

Do you want to operate individual modules redundantly? No problem thanks to terminal blocks with integrated I/O redundancy completely without external components or additional wiring.



## Technical highlights

- Compact size with up to 56 I/O modules per rail
- Robust design for use at temperatures from 40 °C to +70 °C and altitudes of up to 4000 m
- High channel density of up to 32 channels on a 22.5 mm wide module
- Conformal coating of all components
- Implementation of increased interference immunity according to NAMUR recommendation NE21
- Use in potentially explosive areas up to Ex zone 2
- Future proof and highly flexible due to PROFINET connection
- System-integrated Powerbus