

# Siemens 6DS1606-8BA

TELEPERM PRA Testable Relay Output Module

## Product scope

- Provides sixteen isolated changeover relay outputs.
- Divides channels into two diversely implemented groups of eight.
- Supports watchdog, driver testing and contact monitoring.
- Requires fail-state and fuse configuration to be retained.

## Manufacturer source

Siemens TELEPERM M/ME manufacturer manual for testable relay output module 6DS1606-8BA.

This English product record summarizes manufacturer-verified function, operating principle, application and exact-model matching requirements.

| Request a fast quote                                                                                                                                              | Product reference   |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---------------------------------------------------------------------------------------|
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TELEPERM PRA Testable Relay Output Module

## Manufacturer-source product record

This record consolidates exact-model facts from the manufacturer references listed below. It is included to identify the ordering configuration before the retained source pages.

|                                        |                                                                |
|----------------------------------------|----------------------------------------------------------------|
| Operating voltage L+                   | 24 V DC (20 to 33 V DC)                                        |
| Signal voltage PM                      | 24 V DC (20 to 33 V DC)                                        |
| Flashing voltage BS                    | 24 V DC (20 to 33 V DC)                                        |
| L+ current consumption                 | 180 mA typical                                                 |
| 5 V bus current consumption            | 100 mA plus 12 mA per energized relay                          |
| PM current consumption                 | 0.2 mA                                                         |
| Typical module power loss              | 5 W                                                            |
| Relay outputs                          | 16                                                             |
| Relay groups                           | Two groups of 8 channels                                       |
| Maximum DC switching power             | 60 W                                                           |
| Switching voltage                      | 20 to 60 V DC or 24 V AC                                       |
| Minimum contact current                | 0.75 mA                                                        |
| Maximum continuous current per channel | 2.5 A                                                          |
| Maximum group current                  | 10 A for channels 1-8 and 10 A for channels 9-16               |
| Permissible inductive load             | Approximately 300 mH with an external flyback diode            |
| Relay pickup time                      | 8 ms                                                           |
| Relay release time                     | 5 ms                                                           |
| Contact-monitoring test pulse          | 10 ms maximum                                                  |
| Module fuse                            | 1 A fast acting                                                |
| Channel fuse, 20 to 33 V               | 2.5 A medium time-lag                                          |
| Channel fuse, 33 to 60 V               | 1.6 A medium time-lag                                          |
| Mechanical format                      | Double-height Eurocard, 233 x 160 mm, 30 mm front panel, 2 SEP |
| Contact type                           | Potential-free changeover contacts                             |
| System compatibility                   | TELEPERM AS 220 E/EHF and AS 235/235H                          |

## Official references

- Siemens TELEPERM M/M/E manufacturer manual for testable relay output module 6DS1606-8BA.

Only the exact configuration shown above is represented. Adjacent model variants, optional assemblies and system accessories are not treated as part of this ordering identity.

## Function, operating principle and application

The notes below explain how this product is used and how its documented signal, power or control path operates. They remain limited to the manufacturer evidence for this model.

### Function

The PRA module switches sixteen relay outputs and supports testable output behavior for safety-oriented TELEPERM applications.

### Operating principle

Two diversely implemented groups drive isolated changeover contacts. Monitoring, watchdog logic and driver tests supervise the output path and report faults to the automation system.

### Application

It is used where relay isolation, output-state control and periodic proof testing are required in AS 220 or AS 235 installations.

### Replacement boundary

Preserve slot coding, bus assignment, configured fail-state behavior, contact-monitoring wiring and fuse ratings before commissioning.



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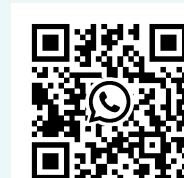
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