

# 01 Readiness and operating boundary

Siemens 5136-DNS-200S is a DeviceNet slave adapter for the SIMATIC ET 200S distributed I/O system. It connects a DeviceNet network to ET 200S expansion modules and supplies the station backplane bus.

## Confirm exact identity

Confirm the complete 5136-DNS-200S marking, DeviceNet node and installed ET 200S station before work.

|             |                         |
|-------------|-------------------------|
| Exact model | 5136-DNS-200S           |
| Module type | DeviceNet slave adapter |
| I/O system  | SIMATIC ET 200S         |

## Establish the safe work boundary

Place the controller and field equipment in the approved maintenance state, then isolate and prove every affected circuit safe.

|            |                                     |
|------------|-------------------------------------|
| Identity   | 5136-DNS-200S                       |
| Host       | SIMATIC ET 200S                     |
| Acceptance | Diagnostics and functional response |

| PAGE TRACE | REQUIRED ENTRY                               |
|------------|----------------------------------------------|
| Inspector  | _____                                        |
| Result     | Pass / hold / corrective action              |
| Record     | Date, diagnostic state and release reference |

## CONTACT APTER POWER

|                  |                        |
|------------------|------------------------|
| WHATSAPP / PHONE | +86 180 3023 5313      |
| EMAIL            | sales13@apterpower.com |
| WEBSITE          | www.apterpower.com     |



5136-DNS-200S

## 2 02 Configuration and interface setup

Within a SIMATIC ET 200S station, Siemens 5136-DNS-200S manages the DeviceNet node identity, adapter data exchange and expansion-module configuration while reporting module, network and I/O status.

### Record the as-found configuration

Record the node address, data rate, DIP-switch positions, module order and configuration mode before removal.

|              |                         |
|--------------|-------------------------|
| Module type  | DeviceNet slave adapter |
| I/O system   | SIMATIC ET 200S         |
| Bus protocol | DeviceNet               |

### Map connections and settings

Verify the 24 V DC Class 2 electronics supply and the separate 11-25 V DC DeviceNet supply before reconnection.

|            |                                     |
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### 03 Installation and service sequence

Within a SIMATIC ET 200S station, Siemens 5136-DNS-200S manages the DeviceNet node identity, adapter data exchange and expansion-module configuration while reporting module, network and I/O status.

#### Restore the documented assembly

Restore the five-pin DeviceNet connector with the documented polarity, shielding and trunk/drop arrangement.

|                           |                       |
|---------------------------|-----------------------|
| <b>I/O system</b>         | SIMATIC ET 200S       |
| <b>Bus protocol</b>       | DeviceNet             |
| <b>Transmission rates</b> | 125 / 250 / 500 kbaud |

#### Protect every interface

Reinstall expansion modules in the recorded order and restore the retained automatic or user-configured I/O map.

|                   |                                     |
|-------------------|-------------------------------------|
| <b>Identity</b>   | 5136-DNS-200S                       |
| <b>Host</b>       | SIMATIC ET 200S                     |
| <b>Acceptance</b> | Diagnostics and functional response |

| PAGE TRACE       | REQUIRED ENTRY                               |
|------------------|----------------------------------------------|
| <b>Inspector</b> | _____                                        |
| <b>Result</b>    | Pass / hold / corrective action              |
| <b>Record</b>    | Date, diagnostic state and release reference |

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## 04 Verification and fault isolation

Within a SIMATIC ET 200S station, Siemens 5136-DNS-200S manages the DeviceNet node identity, adapter data exchange and expansion-module configuration while reporting module, network and I/O status.

### Verify the installed function

Follow the documented power sequence before relying on automatic configuration or replacing a module under power.

|                           |                       |
|---------------------------|-----------------------|
| <b>Bus protocol</b>       | DeviceNet             |
| <b>Transmission rates</b> | 125 / 250 / 500 kbaud |
| <b>Network connector</b>  | 5-pin DeviceNet       |

### Isolate unexpected response

Check module, network and I/O LEDs, exchange every configured byte and clear hot-swap or configuration mismatch diagnostics before release.

|                   |                                     |
|-------------------|-------------------------------------|
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| <b>Host</b>       | SIMATIC ET 200S                     |
| <b>Acceptance</b> | Diagnostics and functional response |

| PAGE TRACE       | REQUIRED ENTRY                               |
|------------------|----------------------------------------------|
| <b>Inspector</b> | _____                                        |
| <b>Result</b>    | Pass / hold / corrective action              |
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## 5 05 Acceptance and service handover

Within a SIMATIC ET 200S station, Siemens 5136-DNS-200S manages the DeviceNet node identity, adapter data exchange and expansion-module configuration while reporting module, network and I/O status.

### Complete the release record

Confirm the complete 5136-DNS-200S marking, DeviceNet node and installed ET 200S station before work.

|             |                         |
|-------------|-------------------------|
| Exact model | 5136-DNS-200S           |
| Module type | DeviceNet slave adapter |
| I/O system  | SIMATIC ET 200S         |

### Retain acceptance evidence

Place the controller and field equipment in the approved maintenance state, then isolate and prove every affected circuit safe.

|            |                                     |
|------------|-------------------------------------|
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| Host       | SIMATIC ET 200S                     |
| Acceptance | Diagnostics and functional response |

Siemens 6ES7143-3BH00-0XA0 ET 200S Module

Siemens 6ES7138-4CA01-0AA0 ET 200S Module

Siemens 6ES7151-1CA00-1BL0 ET 200S Interface Module

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