# General Specifications

## Terminal Boards (for FIO)

**GS 33J60H50-01EN**

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## General

This document describes the specifications of terminal boards used for FIOs of CENTUM VP systems.

## Standard Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Points</th>
<th>Terminals</th>
<th>Modules Connected</th>
<th>Connection Cable</th>
<th>Weight</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>AEA3D</td>
<td>For 2-wire Transmitter (for single or dual redundant modules)</td>
<td>8 pts x 4</td>
<td>M4 screws</td>
<td>AAI135 AAI835 AAP135</td>
<td>KS1</td>
<td>Approx. 1.8 kg</td>
<td></td>
</tr>
<tr>
<td>AEA4D</td>
<td>For analog signals (for single or dual redundant modules)</td>
<td>8 pts x 2</td>
<td>M4 screws</td>
<td>AAI135 AAI835 AAP135 AAV141 AAV144 AAB841 AAI841 AAV542 AAI143 AAI543</td>
<td>KS1</td>
<td>Approx. 1.5 kg</td>
<td></td>
</tr>
<tr>
<td>AEA4D</td>
<td>For analog signals (for single or dual redundant modules)</td>
<td>16 pts x 2</td>
<td>M4 screws</td>
<td>AAI135 AAI835 AAP135 AAV141 AAV144 AAB841 AAI841 AAV542 AAI143 AAI543</td>
<td>KS1</td>
<td>Approx. 1.5 kg</td>
<td></td>
</tr>
<tr>
<td>AET4D</td>
<td>For thermocouple (for single or dual redundant modules)</td>
<td>16 pts x 2</td>
<td>M4 screws</td>
<td>AAT145</td>
<td>KS1</td>
<td>Approx. 1.8 kg</td>
<td></td>
</tr>
<tr>
<td>AED5D</td>
<td>For digital signals (for single or dual redundant modules)</td>
<td>32 pts x 1</td>
<td>M4 screws</td>
<td>ADV151 ADV551 ADV161 ADV561 ADV161 ADV561 (*1)</td>
<td>AKB331</td>
<td>Approx. 1.5 kg</td>
<td></td>
</tr>
<tr>
<td>AED5D</td>
<td>For digital signals (for single or dual redundant modules)</td>
<td>32 pts x 1</td>
<td>M4 screws</td>
<td>ADV151 ADV551 ADV161 ADV561 ADV161 ADV561 (*1)</td>
<td>AKB337</td>
<td>Approx. 1.5 kg</td>
<td></td>
</tr>
<tr>
<td>AEF9D</td>
<td>For fieldbus (for single or dual redundant modules)</td>
<td>4 ports x 4</td>
<td>M4 screws</td>
<td>ALF111</td>
<td>AKB336</td>
<td>Approx. 1.8 kg</td>
<td></td>
</tr>
<tr>
<td>AER4D</td>
<td>For resistance temperature detectors</td>
<td>16 pts</td>
<td>M4 screws</td>
<td>AAR145</td>
<td>AKB335</td>
<td>Approx. 1.5 kg</td>
<td></td>
</tr>
<tr>
<td>MRT(*2)</td>
<td>For resistance temperature detectors</td>
<td>16 pts x 2</td>
<td>M4 screws</td>
<td>AAR145</td>
<td>KS8</td>
<td>Approx. 1.8 kg</td>
<td></td>
</tr>
</tbody>
</table>

Note: Be sure to leave the connector caps on connectors that are not used, in order to protect the connector pins and prevent dust from accumulating on them.

*1: Two sets of AED5D or AKB337 are required for one set of ADV161 or ADV561.

*2: For details on the MRT, see GS 33K55R40-50E.
EXTERNAL DIMENSIONS

Terminal Boards

AEA3D

When option code is "NTRY"

Nominal Tolerances:
Nominal tolerance is ± 0.8 mm for the dimensions of 0.5 mm or more and 120 mm or less, and the combined nominal tolerance is ± 1.5 mm.
The nominal tolerance is in accordance with JEM 1459 for the dimensions over 120 mm.
When option code is "/NTRY"

Nominal Tolerances:
Nominal tolerance is ± 0.8 mm for the dimensions of 0.5 mm or more and 120 mm or less, and the combined nominal tolerance is ± 1.5 mm.
The nominal tolerance is in accordance with JEM 1459 for the dimensions over 120 mm, in accordance with JEM 1459.
When option code is “/NTRY”

Nominal Tolerances:
- Nominal tolerance is ± 0.8 mm for the dimensions of 0.5 mm or more and 120 mm or less, and the combined nominal tolerance is ± 1.5 mm
- The nominal tolerance is in accordance with JEM 1459 for the dimensions over 120 mm, in accordance with JEM 1459.
When option code is "NTRY"

Nominal Tolerances:
Nominal tolerance is ± 0.8 mm for the dimensions of 0.5 mm or more and 120 mm or less, and the combined nominal tolerance is ± 1.5 mm.
The nominal tolerance is in accordance with JEM 1459 for the dimensions over 120 mm. in accordance with JEM 1459.
When option code is "/NTRY"

Nominal Tolerances:
Nominal tolerance is ± 0.8 mm for the dimensions of 0.5 mm or more and 120 mm or less, and the combined nominal tolerance is ± 1.5 mm.
The nominal tolerance is in accordance with JEM 1459 for the dimensions over 120 mm. in accordance with JEM 1459.
### MODELS AND SUFFIX CODES

#### Terminal Board for Analog (single and dual-redundant)

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AEA3D</td>
<td>Terminal Board for Analog (single and dual-redundant, 8-channel)</td>
</tr>
</tbody>
</table>

**Suffix Codes**

- **-0**: Without surge absorber
- **5**: Basic type with no explosion protection
- **6**: With ISA Standard G3 option and no explosion protection
- **E**: Basic type with explosion protection
- **F**: With ISA Standard G3 option and explosion protection

**Option Code**

- **/NTRY**: Without cable tray

#### Terminal Board for Digital (single and dual-redundant)

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AED5D</td>
<td>Terminal Board for Digital (single and dual-redundant, 32-channel)</td>
</tr>
</tbody>
</table>

**Suffix Codes**

- **-0**: Without surge absorber
- **5**: Basic type with no explosion protection
- **6**: With ISA Standard G3 option and no explosion protection
- **E**: Basic type with explosion protection
- **F**: With ISA Standard G3 option and explosion protection

**Option Code**

- **/NTRY**: Without cable tray

Note: When the AED5D is used in voltage output mode, it does not conform to Non-Incendive standard.

#### Terminal Board for Resistance Temperature Detectors (single and dual-redundant)

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AER4D</td>
<td>Terminal Board for resistance temperature detectors (single and dual-redundant, 16-channel)</td>
</tr>
</tbody>
</table>

**Suffix Codes**

- **-0**: Without surge absorber
- **5**: Basic type with no explosion protection
- **6**: With ISA Standard G3 option and no explosion protection
- **E**: Basic type with explosion protection
- **F**: With ISA Standard G3 option and explosion protection

**Option Code**

- **/NTRY**: Without cable tray

#### Terminal Board for Fieldbus (single and dual-redundant)

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AEF9D</td>
<td>Terminal Board for Fieldbus (single and dual-redundant)</td>
</tr>
</tbody>
</table>

**Suffix Codes**

- **-0**: Without surge absorber
- **5**: Basic type with no explosion protection
- **6**: With ISA Standard G3 option and no explosion protection
- **E**: Basic type with explosion protection
- **F**: With ISA Standard G3 option and explosion protection

**Option Code**

- **/NTRY**: Without cable tray
■ APPLICABLE STANDARDS
Refer to the GS "Integrated Production Control System CENTUM VP System Overview (GS 33J01A10-01EN)."

■ ORDERING INFORMATION
Specify models and suffix codes when ordering. For selecting the right products for explosion protection, please refer to TI 33Q01J30-01E without fail.

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