

# Clamp modules

## System 200V | Clamp modules

201-1AA00  
201-1AA10  
201-1AA20  
201-1AA40

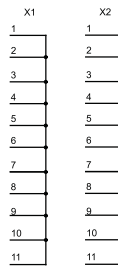
| Order number                                   | 201-1AA00   | 201-1AA10   | 201-1AA20   | 201-1AA40   |
|--|---|---|---|---|
| Figure   |    |    |                                      |    |
| Type   | CM 201,<br>2x11 clamps  | CM 201,<br>2x11 clamps  | CM 201,<br>2x11 clamps  | CM 201,<br>2x5/2x6 clamps   |
| <b>General information</b>                     |   |   |   |   |
| Note   | -   | -   | -   | -   |
| Features                                       | <ul style="list-style-type: none"> <li>▶ Dual terminals,</li> <li>▶ 2x11 clamps, gray/gray,</li> <li>▶ passive</li> </ul> | <ul style="list-style-type: none"> <li>▶ Dual terminals,</li> <li>▶ 2x11 clamps, green-yellow/gray,</li> <li>▶ passive</li> </ul> | <ul style="list-style-type: none"> <li>▶ Dual terminals,</li> <li>▶ 2x11 clamps, red/blue</li> <li>▶ passive</li> </ul> | <ul style="list-style-type: none"> <li>▶ Quad terminals,</li> <li>▶ 2x5 clamps gray/gray,</li> <li>▶ 2x6 clamps red/blue,</li> <li>▶ passive</li> </ul> |
| <b>Clamp parameter</b>                         |   |   |   |   |
| Terminal voltage max.                          | DC 60 V   | DC 60 V   | DC 60 V   | DC 60 V   |
| Terminal current max.                          | 10 A  | 10 A  | 10 A  | 10 A  |
| <b>Status information, alarms, diagnostics</b> |   |   |   |   |
| Status display                                 | -   | -   | -   | -   |
| Interrupts                                     | -   | -   | -   | -   |
| Process alarm                                  | -   | -   | -   | -   |
| Diagnostic interrupt                           | -   | -   | -   | -   |
| Diagnostic functions                           | -   | -   | -   | -   |
| Diagnostics information read-out               | -   | -   | -   | -   |
| Supply voltage display                         | -   | -   | -   | -   |
| Group error display                            | -   | -   | -   | -   |
| Channel error display                          | -   | -   | -   | -   |
| <b>Mechanical data</b>                         |   |   |   |   |
| Dimensions (WxHxD)                             | 25.4 mm x 76 mm x 80 mm   | 25.4 mm x 76 mm x 80 mm   | 25.4 mm x 76 mm x 80 mm   | 25.4 mm x 76 mm x 80 mm   |
| Weight   | 90 g  | 90 g  | 90 g  | 90 g  |
| <b>Environmental conditions</b>                |   |   |   |   |
| Operating temperature                          | 0 °C to 60 °C   | 0 °C to 60 °C   | 0 °C to 60 °C   | 0 °C to 60 °C   |
| Storage temperature                            | -25 °C to 70 °C   | -25 °C to 70 °C   | -25 °C to 70 °C   | -25 °C to 70 °C   |
| <b>Certifications</b>                          |   |   |   |   |
| UL508 certification                            | yes   | yes   | yes   | yes   |

# Connections, Interfaces

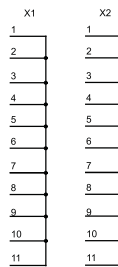
## System 200V | Clamp modules

201-1AA00  
201-1AA10  
201-1AA20  
201-1AA40

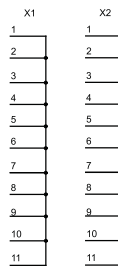
### 201-1AA00



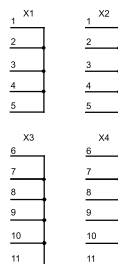
### 201-1AA10



### 201-1AA20





### 201-1AA40



# Power supply

| System 200V   Power supply |  |  |  |  |  |
|----------------------------|--|--|--|--|--|
| 207-1BA00                  |  |  |  |  |  |
| 207-2BA20                  |  |  |  |  |  |

| Order number                                   | 207-1BA00   | 207-2BA20   |  |  |
|--|---|---|--|--|
| Figure   |    |    |  |  |
| Type   | PS 207,<br>AC 100/240V,<br>DC 24V 2A, 48W   | PS 207,<br>AC 100/240V,<br>DC 24V 2A, 48W,<br>2x11 clamps   |  |  |
| <b>General information</b>                     |   |   |  |  |
| Note   | -   | -   |  |  |
| Features                                       | <ul style="list-style-type: none"> <li>▸ AC 100...240 V w/o manual intervention,</li> <li>▸ Output voltage DC 24 V</li> </ul> | <ul style="list-style-type: none"> <li>▸ AC 100...240 V w/o manual intervention,</li> <li>▸ Output voltage DC 24V,</li> <li>▸ Terminal module with 2x11 clamps</li> </ul> |  |  |
| <b>Technical data power supply</b>             |   |   |  |  |
| Input voltage (rated value)                    | AC 100...240 V  | AC 100...240 V  |  |  |
| Input voltage (permitted range)                | AC 100...240 V  | AC 100...240 V  |  |  |
| Mains frequency (rated value)                  | 50...60 Hz  | 50...60 Hz  |  |  |
| Mains frequency (permitted range)              | 47...63 Hz  | 47...63 Hz  |  |  |
| Input voltage (at 120 V)                       | 0.53 A  | 0.53 A  |  |  |
| Input voltage (at 230 V)                       | 0.24 A  | 0.24 A  |  |  |
| Inrush current (at 25 °C)                      | 30 A  | 30 A  |  |  |
| Power consumption typ.                         | 53 W  | 53 W  |  |  |
| Output voltage (rated value)                   | 24 V  | 24 V  |  |  |
| Output current (rated value)                   | 2 A   | 2 A   |  |  |
| Power supply parallel switchable               | ✓   | ✓   |  |  |
| Protect type                                   | Short circuit, overload,<br>over temperature  | Short circuit, overload,<br>over temperature  |  |  |
| Ripple of output voltage (max.), BW=20 MHz     | 100 mV  | 100 mV  |  |  |
| Efficiency typ.                                | 90 %  | 90 %  |  |  |
| Power loss typ.                                | 5 W   | 5 W   |  |  |
| <b>Clamp parameter</b>                         |   |   |  |  |
| Terminal voltage max.                          | -   | DC 60 V   |  |  |
| Terminal current max.                          | -   | 10 A  |  |  |
| <b>Status information, alarms, diagnostics</b> |   |   |  |  |
| Status display                                 | yes   | yes   |  |  |
| Interrupts                                     | no  | no  |  |  |
| Process alarm                                  | no  | no  |  |  |
| Diagnostic interrupt                           | no  | no  |  |  |
| Diagnostic functions                           | no  | no  |  |  |
| Diagnostics information read-out               | none  | none  |  |  |
| Supply voltage display                         | none  | none  |  |  |
| Group error display                            | none  | none  |  |  |
| Channel error display                          | none  | none  |  |  |

**System 200V | Power supply**


|                        |  |  |  |  |  |  |
|------------------------|--|--|--|--|--|--|
| 207-1BA00<br>207-2BA20 |  |  |  |  |  |  |
|------------------------|--|--|--|--|--|--|

| Order number                    | 207-1BA00               | 207-2BA20               |  |  |
|---------------------------------|-------------------------|-------------------------|--|--|
| <b>Mechanical data</b>          |                         |                         |  |  |
| Dimensions (WxHxD)              | 25.4 mm x 76 mm x 78 mm | 50.8 mm x 76 mm x 78 mm |  |  |
| Weight                          | 150 g                   | 210 g                   |  |  |
| <b>Environmental conditions</b> |                         |                         |  |  |
| Operating temperature           | 0 °C to 60 °C           | 0 °C to 60 °C           |  |  |
| Storage temperature             | -25 °C to 70 °C         | -25 °C to 70 °C         |  |  |
| <b>Certifications</b>           |                         |                         |  |  |
| UL508 certification             | yes                     | yes                     |  |  |

# Connections, Interfaces

| System 200V   Power supply |  |  |  |  |  |  |
|----------------------------|--|--|--|--|--|--|
| 207-1BA00                  |  |  |  |  |  |  |
| 207-2BA20                  |  |  |  |  |  |  |

### 207-1BA00



**X1**

100-240V AC  
15A/200VA  
50/60Hz


|   |   |                  |
|---|---|------------------|
| 1 | ○ | AC 100 ... 240 V |
| 2 | ○ | N                |
| 3 | ○ | AC 100 ... 240 V |
| 4 | ○ | PE               |

**X2**

OUT DC 24V/1.2A  
480W/48V

|   |   |           |
|---|---|-----------|
| 1 | ○ | + DC 24 V |
| 2 | ○ | - DC 24 V |
| 3 | ○ | + DC 24 V |
| 4 | ○ | - DC 24 V |

### 207-2BA20



**X1**

100-240V AC  
15A/200VA  
50/60Hz

|   |   |                  |
|---|---|------------------|
| 1 | ○ | AC 100 ... 240 V |
| 2 | ○ | N                |
| 3 | ○ | AC 100 ... 240 V |
| 4 | ○ | PE               |

**X2**

OUT DC 24V/2.2A  
480W/48V

|   |   |           |
|---|---|-----------|
| 1 | ○ | + DC 24 V |
| 2 | ○ | - DC 24 V |
| 3 | ○ | + DC 24 V |
| 4 | ○ | - DC 24 V |

| X3 | X4 |
|----|----|
| 1  | 1  |
| 2  | 2  |
| 3  | 3  |
| 4  | 4  |
| 5  | 5  |
| 6  | 6  |
| 7  | 7  |
| 8  | 8  |
| 9  | 9  |
| 10 | 10 |
| 11 | 11 |

# Row interface connection


| Interface modules   Row interface connection |  |  |  |  |  |  |
|--|--|--|--|--|--|--|
| 260-1AA00                                    |  |  |  |  |  |  |
| 261-1CA00                                    |  |  |  |  |  |  |

| Order number                                   | 260-1AA00   | 261-1CA00   |  |  |
|--|---|---|--|--|
| Figure   |  |  |  |  |
| Type   | IM 260,<br>Basic interface  | IM 261,<br>Row interface  |  |  |
| <b>General information</b>                     |   |   |  |  |
| Note   | -   | -   |  |  |
| Features                                       | ▶ Only be used in conjunction with the PC 288 or a CPU                            | ▶ Only be used in conjunction with the PC 288 or a CPU                            |  |  |
| <b>Technical data power supply</b>             |   |   |  |  |
| Power supply (rated value)                     | DC 24 V   | DC 24 V   |  |  |
| Power supply (permitted range)                 | DC 20.4...28.8 V  | DC 20.4...28.8 V  |  |  |
| Reverse polarity protection                    | ✓   | ✓   |  |  |
| Current consumption (no-load operation)        | -   | -   |  |  |
| Current consumption (rated value)              | 30 mA   | -   |  |  |
| Inrush current                                 | -   | -   |  |  |
| Max. current drain at backplane bus            | 1.9 A   | 4 A   |  |  |
| Max. current drain load supply                 | -   | -   |  |  |
| Power loss                                     | -   | -   |  |  |
| <b>Status information, alarms, diagnostics</b> |   |   |  |  |
| Status display                                 | yes   | yes   |  |  |
| Interrupts                                     | no  | no  |  |  |
| Process alarm                                  | no  | no  |  |  |
| Diagnostic interrupt                           | no  | no  |  |  |
| Diagnostic functions                           | no  | no  |  |  |
| Diagnostics information read-out               | none  | none  |  |  |
| Supply voltage display                         | yes   | yes   |  |  |
| Group error display                            | none  | none  |  |  |
| Channel error display                          | none  | none  |  |  |
| <b>Hardware config</b>                         |   |   |  |  |
| Racks, max.                                    | 1   | 1   |  |  |
| Modules per rack, max.                         | 32  | 32  |  |  |
| Number of digital modules, max.                | 16  | 16  |  |  |
| Number of analog modules, max.                 | 16  | 16  |  |  |
| <b>Mechanical data</b>                         |   |   |  |  |
| Dimensions (WxHxD)                             | 25.4 mm x 76 mm x 78 mm   | 25.4 mm x 76 mm x 78 mm   |  |  |
| Weight   | 100 g   | 90 g  |  |  |
| <b>Environmental conditions</b>                |   |   |  |  |
| Operating temperature                          | 0 °C to 60 °C   | 0 °C to 60 °C   |  |  |
| Storage temperature                            | -25 °C to 70 °C   | -25 °C to 70 °C   |  |  |
| <b>Certifications</b>                          |   |   |  |  |
| UL508 certification                            | yes   | yes   |  |  |


# Connections, Interfaces

| Interface modules |  | Row interface connection |  |  |  |  |
|-------------------|--|--------------------------|--|--|--|--|
| 260-1AA00         |  |                          |  |  |  |  |
| 261-1CA00         |  |                          |  |  |  |  |


### 260-1AA00




Basic interface  
OUT




• + DC 24 V  
• - DC 24 V




### 261-1CA00



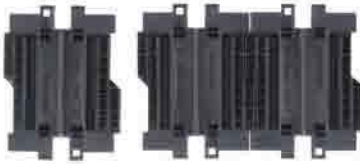
Row interface  
IN



OUT



## BUS CONNECTORS



| Order number | Type          | Description | Note |
|--------------|---------------|-------------|------|
| 290-0AA10    | Bus connector | 1tier       |      |
| 290-0AA20    | Bus connector | 2tier       |      |
| 290-0AA40    | Bus connector | 4tier       |      |
| 290-0AA80    | Bus connector | 8tier       |      |

## 35 MM PROFILE RAIL



| Order number | Type               | Description                        | Note |
|--------------|--------------------|------------------------------------|------|
| 290-1AF00    | 35 mm profile rail | 35 mm profile rail; lenght 2000 mm |      |
| 290-1AF30    | 35 mm profile rail | 35 mm profile rail; lenght 530 mm  |      |

## FRONT CONNECTOR



| Order number | Type            | Description             | Note |
|--------------|-----------------|-------------------------|------|
| 292-1AF00    | Front connector | 10 pin with cage clamps |      |
| 292-1AH00    | Front connector | 18 pin with cage clamps |      |



## CABLES



| Order number | Type             | Description  | Note |
|--------------|------------------|--|------|
| 260-1XY05    | Connection cable | Connection cable for interface modules, length 0.5 m |      |
| 260-1XY10    | Connection cable | Connection cable for interface modules, length 1.0 m |      |
| 260-1XY15    | Connection cable | Connection cable for interface modules, length 1.5 m |      |
| 260-1XY20    | Connection cable | Connection cable for interface modules, length 2.0 m |      |
| 260-1XY25    | Connection cable | Connection cable for interface modules, length 2.5 m |      |

## ANTENNAS, CONNECTORS ETC.



| Order number | Type                           | Description   | Note |
|--------------|--------------------------------|---|------|
| 970-0CM00    | CM 240 - Jack                  | For communication processor CM 240 - mini switch, external DC 24 V power supply |      |
| 240-0EA00    | CP 240 - Portable Antenna      | EnOcean Antenna portable, incl. SMA connector                                   |      |
| 240-0EA10    | CP 240 - magnetic base antenna | EnOcean Antenna magnetic base, incl. 150 cm cable and SMA connector             |      |

## MMC MEMORY



| Order number | Type                   | Description  | Note |
|--------------|------------------------|--|------|
| 953-0KX10    | MMC - Multi Media Card | Extension memory for VIPA CPUs 11x, 21x, 24x, 31x, 51x, and 208-1DP01, CC 03 (for load memory not necessary) |      |

## LABELING

| Order number | Type            | Description  | Note |
|--------------|-----------------|--|------|
| 292-1XY10    | Labelling cards | I/O-labelling, perforated, 10 sheets each 8 cards      |      |
| 292-1XY20    | Clip-on cards   | Module-labelling, perforated, 10 sheets each 108 cards |      |
| 292-1XY00    | Labelling cards | I/O-labelling, with transparent cover foil, 10 pieces  |      |

## MANUALS AND OPERATING INSTRUCTIONS



| Order number | Title                       | Contents  | Language |
|--------------|-----------------------------|---|----------|
| HB97D        | Manual System 200V, German  | HB97D_PS-CM, HB97D_SM, HB97D_CP, HB97D_IM, HB97D_FM | DE       |
| HB97D_CP     | Manual System 200V - CP     | CP 240 Communication processors                     | DE       |
| HB97D_CPU    | Manual System 200V - CPU    | CPU 21x, incl. operations list                      | DE       |
| HB99D_CPU    | Manual CPU 24x, German      | CPU 24x, incl. operations list                      | DE       |
| HB97D_FM     | Manual System 200V - FM     | FM - Function modules                               | DE       |
| HB97D_IM     | Manual System 200V - IM     | IM - Interface modules                              | DE       |
| HB97D_PS-CM  | Manual System 200V - PS-CM  | PS-CM - Power supplies / Expansion modules          | DE       |
| HB97D_SM     | Manual System 200V - SM     | SM- Signal modules                                  | DE       |
| HB97E        | Manual System 200V, English | HB97E_PS-CM, HB97E_SM, HB97E_CP, HB97E_IM, HB97E_FM | EN       |
| HB97E_CP     | Manual System 200V - CP     | CP 240 Communication processors                     | EN       |
| HB97E_CPU    | Manual System 200V - CPU    | CPU 21x, incl. operations list                      | EN       |
| HB99E_CPU    | Manual CPU 24x, English     | CPU 24x, incl. operations list                      | EN       |
| HB97E_FM     | Manual System 200V - FM     | FM - Function modules                               | EN       |
| HB97E_IM     | Manual System 200V - IM     | IM - Interface modules                              | EN       |
| HB97E_PS-CM  | Manual System 200V - PS-CM  | PS-CM - Power supplies / Expansion modules          | EN       |
| HB97E_SM     | Manual System 200V - SM     | SM - Signal modules                                 | EN       |