Description

In addition to the onboard interfaces, the interface functions can also be expanded in a modular way using the various slots. The interface module PCD7.F110S supports the RS-485 and RS-422 industry standards.

RS-485 connection

(Electrically connected RS-485 interface)

<table>
<thead>
<tr>
<th>Terminal</th>
<th>RS-485</th>
<th>Peripherie-device</th>
</tr>
</thead>
<tbody>
<tr>
<td>x0 PGND</td>
<td>GND</td>
<td>PGND</td>
</tr>
<tr>
<td>x1 RX - TX</td>
<td>RS-485</td>
<td>RX - TX</td>
</tr>
<tr>
<td>x2 /RX - /TX</td>
<td>RS-485</td>
<td>/RX - /TX</td>
</tr>
</tbody>
</table>

The line terminator in RS-422 mode occurs at 150 Ω in all cases.

Bus termination

The terminating connectors can be linked using slide switches (CLOSED) or isolated (OPEN).

RS-422 connection

<table>
<thead>
<tr>
<th>Terminal</th>
<th>RS-422</th>
<th>Peripherie-device</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pin</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PGND x0</td>
<td></td>
<td>PGND</td>
</tr>
<tr>
<td>TX x1</td>
<td></td>
<td>TX</td>
</tr>
<tr>
<td>/TX x2</td>
<td></td>
<td>/TX</td>
</tr>
<tr>
<td>RX x3</td>
<td></td>
<td>RX</td>
</tr>
<tr>
<td>/RX x4</td>
<td></td>
<td>/RX</td>
</tr>
<tr>
<td>PGND x5</td>
<td></td>
<td>SGND</td>
</tr>
<tr>
<td>RTS x6</td>
<td></td>
<td>RTS</td>
</tr>
<tr>
<td>/RTS x7</td>
<td></td>
<td>/RTS</td>
</tr>
<tr>
<td>CTS x8</td>
<td></td>
<td>CTS</td>
</tr>
<tr>
<td>/CTS x9</td>
<td></td>
<td>/CTS</td>
</tr>
</tbody>
</table>

Open, not terminated (factory setting)

Closed, terminated
**What is where?**

1. Order number
2. Hardware version
3. Manufacturing date
4. Production number
5. Production batch
6. DIP-switches terminators if available (not for RS-422)
7. Rx/Tx LEDs

**LEDs**

The both LEDs 7 Rx and Tx have the following meaning:

- LED Rx Receive data detection
- LED Tx Transmission data detection

**Bus termination:**

The bus termination must be made at the cable ends of the RS-485 cable. For this, the necessary terminating resistors in the PCD7.F110S must be connected by means of switches on the respective module.

First station and Last station = ‘close’, all other stations = ‘open’.

- First station
- Middle stations
- End station

**Diagram:**

- Pull up 330 Ohm
- Termination Resistor 150 Ohm
- Pull down 330 Ohm

**Bus RS-485**

Segment length max. 1200 m

Max. 32 stations
<table>
<thead>
<tr>
<th>Type</th>
<th>Short description</th>
<th>Description</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCD7.F110S</td>
<td>Serial interface modules</td>
<td>Serial interface module RS-422 / RS-485</td>
<td>7 g</td>
</tr>
</tbody>
</table>
**ATTENTION**
These devices must only be installed by a professional electrician, otherwise there is the risk of fire or the risk of an electric shock.

**WARNING**
Product is not intended to be used in safety critical applications, using it in safety critical applications is unsafe.

**WARNING - Safety**
The unit is not suitable for the explosion-proof areas and the areas of use excluded in EN61010 Part 1.

**WARNING - Safety**
Check compliance with nominal voltage before commissioning the device (see type label).
Check that connection cables are free from damage and that, when wiring up the device, they are not connected to voltage.
Do not use a damaged device!

**NOTE**
In order to avoid moisture in the device due to condensate build-up, acclimatise the device at room temperature for about half an hour before connecting.

**CLEANING**
The device can be cleaned in dead state with a dry cloth or cloth soaked in soap solution.
Do not use caustic or solvent-containing substances for cleaning.

**MAINTENANCE**
These devices are maintenance-free.
If damaged, no repairs should be undertaken by the user.

**GUARANTEE**
Opening the module invalidates the guarantee.

Observe this instructions (data sheet) and keep them in a safe place.
Pass on the instructions (data sheet) to any future user.

**WEEE Directive 2012/19/EC Waste Electrical and Electronic Equipment directive**
The product should not be disposed of with other household waste. Check for the nearest authorized collection centers or authorized recyclers. The correct disposal of end-of-life equipment will help prevent potential negative consequences for the environment and human health.

**EAC**
EAC Mark of Conformity for Machinery Exports to Russia, Kazakhstan or Belarus.
Sales and Service
For application assistance, current specifications, pricing, or name of the nearest Authorized Distributor, contact one of the offices below.

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Email: (Sales) FP-Sales-Apps@Honeywell.com  
or (TAC) hfs-tac-support@honeywell.com

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*Specifications are subject to change without notice.*

For more information
Learn more about ControlEdge PCD, visit our website [www.honeywellprocess.com/ControlEdgePCD](http://www.honeywellprocess.com/ControlEdgePCD) or contact your Honeywell account manager.

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