**PROFILE**

The IO 100 is part of the P-open series and provides compact I/O extension for the PU 100 range of PLCs. The unit features 16 on-board digital inputs, and 16 digital I/O which can be configured individually as inputs or outputs.

With its compact dimensions of 124 x 170 mm, and a depth of 85,5 mm, the IO 100 is ideally suited for mounting close to the process in de-centralized systems.

The housing is designed for clip-on mounting to standard DIN rails. System extensions are easily implemented by connecting the IO 100 to its master PLC (PU 10x) via a cable which plugs into the module’s extension bus (E-bus). See the specifications of the relevant PLC module for the max. possible number of extension I/O.

**Selective I/O energization**

Supply of the inputs/outputs is provided via the connecting terminals at the signal level. The supply voltage is 24 VDC.

The I/O’s can be divided into 6 groups, each with its own supply. This enables the I/O of a specific group to be disabled by means of an external switching device.

**Convenient field connections**

Electrical wiring from the machine or process is taken directly to the terminal strips at top and bottom of the modules. The terminal strips are of the plug-in type, allowing system pre-wiring as well as fast module exchange. Furthermore, the following alternatives are available for the terminal strips:

- Screw terminals
- Screwless spring-clamp terminals
- Crimp terminals.

Inputs/outputs are connected using the 3-wire principle. Front panel LEDs indicate the signal status of every I/O, and the module’s operational status. The LED positions are directly associated with the corresponding I/O’s.

Inscription labels on the terminal strips allow clear identification of each I/O.
**TECHNICAL DATA**

**Configuration**
Pre-configured

**Digital I/O**
16 digital inputs for 24 VDC.
16 digital I/O, individually configurable as 24 VDC inputs/outputs (max. 0,5 A for outputs).
Connection: 3-wire technique
All digital outputs are short-circuit proof and have reverse-polarity protection.

**Status LEDs / diagnostics**
32 red LEDs show the switching status of the digital I/O.

**Interface**
E-bus
For connection to the master PLC.

**POWER SUPPLY**

**Module supply**
24 VDC, max. 0,15 A (to EN 61 131-2)

**I/O energization**
24 VDC (to EN 61 131-2), divided into 6 groups.

**Galvanic isolation**
Between module electronics and digital I/O.

**ENVIRONMENTAL CONDITIONS**

**Permissible temperature**
For operation: 5...50°C

**Climatic category**
KUF to DIN 40 040
Relative humidity: ≤ 85% yearly average, no condensation

**Shock and vibration**
_Vibration test Fc_
to DIN 60068-2-6 (5...50 Hz)
Unit in operation: 1g or 0,075 mm
Unit not in operation: 1,5g or 0,15 mm

/Shock test Ea_
to DIN IEC 60068-2-27 (15g, 11 ms)

**ELECTROMAGNETIC COMPATIBILITY**

**Electromagnetic immunity**
Complies with EN 50 082-2

**Electromagnetic radiation**
Complies with EN 50 081-2

**GENERAL**

**Housing**
Front dimensions: 124 x 170 mm
Depth: 85,5 mm
Module spacing: B = 113/118,5 mm
Protection mode: IP 20

**CE-marking**
Fulfils the European Directives for electromagnetic compatibility and low voltage.

**Electrical connections**
Choice of screw terminals (Phoenix type FRONT-MSTB 2,5/18-ST-5,08), screwless spring-clamp connection, or crimp terminals.
All terminal types simply plug onto the connector strips of the IO 100.

**Electrical safety**
Tested to IEC 348 (VDE 0411)
Protection class III (protective low voltage)

**Mounting method**
Clip-on rail mounting (NS 35/75 „top-hat“ rails to DIN EN 50 022)

**Weight**
approx. 0,49 kg

**Accessories**
Operating instructions

**ORDERING DATA**

<table>
<thead>
<tr>
<th>Description</th>
<th>Order no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Extension module IO 100</td>
<td>9407 701 00001</td>
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**ACCESSORIES**

<table>
<thead>
<tr>
<th>Description</th>
<th>Order no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>18-pole screw terminal strip</td>
<td>9407 799 00001</td>
</tr>
</tbody>
</table>

Your local representative:

PMA
Prozeß- und Maschinen- Automation GmbH
P.O. Box 310229
D-34058 Kassel
Tel.: + 49 - 5 61 - 5 05 14 03
Fax.: +4 9 - 5 61 - 5 05 16 61
e-mail: export@pma-online.de
Internet: http://www.pma-online.de

Printed in Germany – Edition 9904 · Data subject to alteration without notice · 9498 737 34113