Control Panel CP600-Pro
CP6605

1 Ordering Data

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Product Life Cycle Phase</th>
</tr>
</thead>
<tbody>
<tr>
<td>1SAP560510R0001</td>
<td>CP6605, control panel, TFT graphical display, multi-touch screen, 5&quot;, 800 x 480 pixel, for PB610 applications and visualization of AC500 V3 web server</td>
<td>Active</td>
</tr>
</tbody>
</table>
2 Dimensions

The dimensions are given in mm and in brackets in inch.

3 Technical Data

3.1 Product Data

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Display</strong></td>
<td></td>
</tr>
<tr>
<td>Size diameter</td>
<td>5&quot;</td>
</tr>
<tr>
<td>Resolution</td>
<td>800 x 480 pixels</td>
</tr>
<tr>
<td>Type</td>
<td>TFT-LCD</td>
</tr>
<tr>
<td>Number of colors</td>
<td>65536</td>
</tr>
<tr>
<td>Brightness</td>
<td>300 cd/m²</td>
</tr>
<tr>
<td><strong>Backlight</strong></td>
<td></td>
</tr>
<tr>
<td>Type</td>
<td>LED</td>
</tr>
<tr>
<td>Lifetime, typical</td>
<td>40 000 h at 25 °C</td>
</tr>
<tr>
<td><strong>Touch screen</strong></td>
<td></td>
</tr>
<tr>
<td>Type</td>
<td>Multi-touch, 2-points gestures, protected capacitive touch screen (PCAP)</td>
</tr>
<tr>
<td>Material</td>
<td>Real glass, black passepartout</td>
</tr>
<tr>
<td><strong>System resources</strong></td>
<td></td>
</tr>
<tr>
<td>Processor type</td>
<td>ARM Cortex-A8, 1 GHz</td>
</tr>
<tr>
<td>Operating system</td>
<td>Linux RT</td>
</tr>
<tr>
<td>Application memory</td>
<td>For HMI projects of up to 240 MB</td>
</tr>
</tbody>
</table>
### Technical Data

#### Interfaces

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>RAM</td>
<td>512 MB</td>
</tr>
<tr>
<td>Flash</td>
<td>4 GB</td>
</tr>
<tr>
<td>Card slot</td>
<td>SD card</td>
</tr>
<tr>
<td>Data backup</td>
<td>Battery</td>
</tr>
<tr>
<td>Battery type</td>
<td>3 V, 50 mAH, Lithium, rechargeable, not user-replaceable</td>
</tr>
<tr>
<td>Data buffering time at 25 °C</td>
<td>Ca. three months</td>
</tr>
<tr>
<td>Real-time clock:</td>
<td></td>
</tr>
<tr>
<td>Accuracy</td>
<td>&lt; 100 ppm at 25 °C</td>
</tr>
<tr>
<td>With battery back-up</td>
<td>yes</td>
</tr>
</tbody>
</table>

#### 3.2 Interfaces

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Network interfaces</td>
<td></td>
</tr>
<tr>
<td>Ethernet port 0</td>
<td>10/100 Mbit</td>
</tr>
<tr>
<td>Ethernet port 1</td>
<td>10/100 Mbit</td>
</tr>
<tr>
<td>Serial interfaces</td>
<td></td>
</tr>
<tr>
<td>COM1</td>
<td>RS-232/-485/-422 software configurable</td>
</tr>
<tr>
<td>COM1 connection</td>
<td>Removable 8-pin miniature connector with push-in spring connection</td>
</tr>
<tr>
<td>USB interfaces</td>
<td></td>
</tr>
<tr>
<td>USB port 1</td>
<td>Host interface V2.0, max. 500 mA</td>
</tr>
</tbody>
</table>

#### 3.3 Power Supply

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supply voltage 24 V DC</td>
<td></td>
</tr>
<tr>
<td>Voltage</td>
<td>24 V (18...32 V)</td>
</tr>
<tr>
<td>Protection against reverse polarity</td>
<td>yes</td>
</tr>
<tr>
<td>Connection at the control panel</td>
<td>Removable 3-pin terminal block with screw connection</td>
</tr>
<tr>
<td>Current consumption from 24 V DC</td>
<td>1.0 A</td>
</tr>
</tbody>
</table>
4 System Data CP600-Pro

4.1 Environmental Conditions

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Allowed interruptions of power supply</td>
<td>EN 61000-4-11</td>
</tr>
<tr>
<td>Voltage dips, short interruptions and voltage variations immunity test</td>
<td>Port: AC mains; Phase: 0°…180°; Test executed on the 230 VAC side of the power supply. Level: 0 % duration: 1 cycle and 250 cycles (50 Hz); 1 cycle and 300 cycles (60 Hz); 40 % duration: 10 cycles (50 Hz); 12 cycles (60 Hz); 70 % duration: 25 cycles (50 Hz); 30 cycles (60 Hz); Port: DC mains; Test executed on the 24 VDC of the EUT, Level: 0 % duration: 10 ms 20 spaces by 1 s</td>
</tr>
<tr>
<td>Temperature</td>
<td>Operating -20°…+60 °C</td>
</tr>
<tr>
<td></td>
<td>Storage -20°…+70 °C</td>
</tr>
<tr>
<td></td>
<td>Transport -20°…+70 °C</td>
</tr>
<tr>
<td>Humidity</td>
<td>5…85 % relative humidity, without condensation</td>
</tr>
<tr>
<td>Air pressure</td>
<td>&gt; 800 hPa / &lt; 2000 m</td>
</tr>
<tr>
<td>Ingress protection</td>
<td>Front IP66</td>
</tr>
<tr>
<td></td>
<td>Rear IP20</td>
</tr>
<tr>
<td>Mechanical resistance</td>
<td>Vibration 5 … 9 Hz, 7 mm; 9 … 150 Hz, 1 g\text{p-p} EN 60068-2-6</td>
</tr>
<tr>
<td></td>
<td>Shock ± 50 g, 11 ms, 3 pulses per axis EN 60068-2-27</td>
</tr>
</tbody>
</table>

4.2 Electromagnetic Compatibility

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Radiated disturbance test</td>
<td>Class A CISPR 22 CISPR 16-2-3</td>
</tr>
<tr>
<td>Electrostatic discharge immunity test</td>
<td>8 kV (air electrostatic discharge) 4 kV (contact electrostatic discharge) EN 61000-4-2</td>
</tr>
<tr>
<td>Radiated, radio-frequency, electromagnetic field immunity test</td>
<td>80 MHz … 1 GHz, 10 V/m 1.4 GHz … 2 GHz, 3 V/m 2 GHz … 2.7 GHz, 1 V/m EN 61000-4-3</td>
</tr>
</tbody>
</table>
5 Mechanical Data

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Housing</strong></td>
<td></td>
</tr>
<tr>
<td>Front frame material</td>
<td>Aluminium, black</td>
</tr>
<tr>
<td>Reverse side material</td>
<td>Aluminium</td>
</tr>
<tr>
<td>Faceplate dimensions (L x H)</td>
<td>147 mm x 107 mm</td>
</tr>
<tr>
<td>Faceplate depth</td>
<td>8.5 mm</td>
</tr>
<tr>
<td>Housing depth</td>
<td>52 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>1.0 kg</td>
</tr>
<tr>
<td><strong>Mounting</strong></td>
<td></td>
</tr>
<tr>
<td>Cutout dimensions (L x H)</td>
<td>136 mm x 96 mm</td>
</tr>
<tr>
<td>Mounting type</td>
<td>Panel mounting in cutout</td>
</tr>
<tr>
<td>Mounting variants</td>
<td>Landscape and portrait mode</td>
</tr>
<tr>
<td>Minimum Compass Safe Distances</td>
<td></td>
</tr>
<tr>
<td>of standard compass</td>
<td>150 mm (5.91”)</td>
</tr>
<tr>
<td>of steering compass</td>
<td>100 mm (3.94”)</td>
</tr>
</tbody>
</table>

5.1 Approvals and Certifications

Information on approvals and certificates can be found in the corresponding chapter of the Main catalog, PLC Automation