

# Operator components for CNC controls

## Operator panels

### SINUMERIK OP 010

#### Overview



The SINUMERIK OP 010 operator panel front with 10.4" TFT color display with a resolution of 640 x 480 pixels (VGA) features a 62-key membrane keypad with 8 + 4 horizontal and 8 vertical softkeys that has been optimized for programming subroutines.

The operator panel front is mounted from the rear using special clamps supplied with the panel.

#### Benefits

- Low-cost operator control and monitoring thanks to 10" display with optimized keyboard

#### Integration

The SINUMERIK operator panel front OP 010 can be used for:

- SINUMERIK 810D powerline/840D powerline:  
SINUMERIK PCU 20/PCU 50/PCU 50.3/PCU 70
- SINUMERIK 840Di/840Di sl
- SINUMERIK 840D sl:  
NCU 710.1/NCU 720.1/NCU 730.1/NCU 730.2 PN,  
SINUMERIK PCU 50.3
- SINUMERIK PCU 321

#### Technical specifications

<b>Order No.</b>	<b>6FC5203-0AF00-0AA1</b>
<b>Product name</b>	SINUMERIK OP 010 operator panel front
<b>Input voltage</b>	Via PCU, TCU or VL receiver (5 V DC)
<b>Power consumption, max.</b>	16 W
<b>Degree of protection to EN 60529 (IEC 60529)</b>	<ul style="list-style-type: none"> <li>Front IP65</li> <li>Rear IP00</li> </ul>
<b>Humidity rating in accordance with EN 60721-3-3</b>	Class 3K5 condensation and icing excluded. Low air temperature 0 °C (32 °F).
<b>Relative humidity</b>	<ul style="list-style-type: none"> <li>Storage 5 ... 95% at 25 °C (77 °F)</li> <li>Transport 5 ... 95% at 25 °C (77 °F)</li> <li>Operation 5 ... 80% at 25 °C (77 °F)</li> </ul>
<b>Ambient temperature</b>	<ul style="list-style-type: none"> <li>Storage -20 ... +60 °C (-4 ... +140 °F)</li> <li>Transport -20 ... +60 °C (-4 ... +140 °F)</li> <li>Operation               <ul style="list-style-type: none"> <li>- Front 0 ... 45 °C (32 ... 113 °F)</li> <li>- Rear 0 ... 55 °C (32 ... 131 °F)</li> </ul> </li> </ul>
<b>Dimensions</b>	<ul style="list-style-type: none"> <li>Width 483 mm (19.02 in)</li> <li>Height 310 mm (12.2 in)</li> <li>Depth 30 mm (1.18 in)</li> </ul>
<b>Depth</b>	<ul style="list-style-type: none"> <li>Without PCU 20 mm (0.78 in)</li> <li>With PCU 20               <ul style="list-style-type: none"> <li>- Clearance 10 mm (0.39 in)</li> </ul> </li> <li>With PCU 50               <ul style="list-style-type: none"> <li>- Clearance 10 mm (0.39 in)</li> </ul> </li> <li>With PCU 70               <ul style="list-style-type: none"> <li>- Clearance 10 mm (0.39 in)</li> </ul> </li> </ul>
<b>Weight, approx.</b>	5 kg (11.0 lb)

#### Selection and Ordering Data

Designation	Order No.
<b>SINUMERIK operator panel front OP 010</b> 26.4 cm/10.4" TFT (640 x 480) with membrane keys	<b>6FC5203-0AF00-0AA1</b>
<b>Accessories</b>	
<b>SINUMERIK operator panel front</b> Without LCD unit for SINUMERIK OP 010	<b>6FC5248-0AF00-0AA0</b>
<b>Slide-in labels for inscribing</b> 3 A4 sheets for OP 010	<b>6FC5248-0AF07-0AA0</b>
<b>Caps (10 units)</b> For USB port	<b>6FC5248-0AF05-0AA0</b>
<b>Set of clamps (6 units)</b>	<b>6FC5248-0AF06-0AA0</b>