

\*\*\*Spare part\*\*\* Push Button Panel PP17 II 32 short-stroke keys, 32 surface LEDs, 16 DI and 16 DO terminals PROFIBUS DP12

General information	
Product type designation	PP17-II
Control elements	
With parameterizable keys	Yes
Keyboard fonts	
<ul style="list-style-type: none"> <li>• Membrane keyboard               <ul style="list-style-type: none"> <li>— user-definable label membrane keys</li> </ul> </li> <li>• Function keys               <ul style="list-style-type: none"> <li>— Number of function keys</li> </ul> </li> <li>• Short-stroke keys               <ul style="list-style-type: none"> <li>— Number of short-stroke keys</li> </ul> </li> </ul>	Yes  32  32
Expansions for operator control of the process	
<ul style="list-style-type: none"> <li>• DP direct LEDs (LEDs as S7 output I/O)</li> <li>• Number of color modes for LED</li> <li>• Direct keys (keys as S7 input I/O)</li> </ul>	32 3 32
Installation type/mounting	
Mounting type	Clamp terminals
Mounting position	vertical
Rack mounting	No
Front mounting	Yes
Rail mounting	No
Wall mounting/direct mounting	No
Mounting in portrait format possible	No
Mounting in landscape format possible	Yes
maximum permissible angle of inclination without external ventilation	35°
Number of slots for command devices and signaling units	0
Supply voltage	
Type of supply voltage	DC
permissible range, lower limit (DC)	18 V
permissible range, upper limit (DC)	30 V
Input current	
Starting current inrush I <sup>2t</sup>	0.03 A <sup>2</sup> ·s

Type of output	
LED colors	Red, yellow, green
• red	Yes
• yellow	Yes
• green	Yes
• white	No
• blue	No
Digital inputs	
Number of digital inputs	16
Input voltage	
• Rated value (DC)	24 V
Digital outputs	
Number of digital outputs	16
• in groups of	4
Short-circuit protection	Yes
Switching capacity of the outputs	
• with resistive load, max.	100 mA
• with inductive load, max.	100 mA; max. 2 watts
• on lamp load, max.	2 W
Output voltage	
• Rated value (DC)	24 V
Total current of the outputs	
• Current per channel, max.	100 mA
• Current per group, max.	500 mA
Interfaces	
Number of industrial Ethernet interfaces	0
Number of PROFINET interfaces	0
Industrial Ethernet	
• Industrial Ethernet status LED	0
• Number of ports of the integrated switch	0
Protocols	
PROFINET	No
Supports protocol for PROFINET IO	No
PROFINET CBA	No
IRT	No
PROFIsafe	No
PROFIBUS	Yes
MPI	Yes
AS-Interface	No
EIB/KNX	No
Protocols (Ethernet)	

• TCP/IP	No
<b>Redundancy mode</b>	
• MRP	No
<b>Further protocols</b>	
• AS-Interface Safety at Work	No
• CAN	No
• Data-Highway	No
• DeviceNet	No
• DeviceNet Safety	No
• EtherNet/IP	No
• Foundation Fieldbus	No
• INTERBUS	No
• INTERBUS-Safety	No
• Local Operating Network	No
• MODBUS	No
• SafetyBUS p	No
• SERCOS	No
• SUCOnet	No
• other bus systems	No

<b>Test commissioning functions</b>	
Illuminant test	Yes
Key and signal lamp test	Yes; Automatically when switching on

<b>EMC</b>	
<b>Emission of radio interference acc. to EN 55 011</b>	
• Limit class A, for use in industrial areas	Yes
• Limit class B, for use in residential areas	No

<b>Degree and class of protection</b>	
IP (at the front)	IP65
Enclosure Type 4 at the front	No
Enclosure Type 4x at the front	No
IP (rear)	IP20

<b>Standards, approvals, certificates</b>	
CE mark	Yes
cULus	No
RCM (formerly C-TICK)	Yes
KC approval	No
Suitable for safety functions	No
<b>Use in hazardous areas</b>	
• ATEX Zone 2	No
• ATEX Zone 22	No

• cULus Class I Zone 1	No
• cULus Class I Zone 2, Division 2	No
• FM Class I Division 2	No
<b>Marine approval</b>	
• Germanischer Lloyd (GL)	No
• American Bureau of Shipping (ABS)	No
• Bureau Veritas (BV)	No
• Det Norske Veritas (DNV)	No
• Lloyds Register of Shipping (LRS)	No
• Nippon Kaiji Kyokai (Class NK)	No
• Polski Rejestr Statkow (PRS)	No

### Ambient conditions

<b>Ambient temperature during operation</b>	
• min.	0 °C
• max.	55 °C
• Operation (vertical installation)	0 °C to +55 °C
— For vertical installation, min.	0 °C
— For vertical installation, max.	55 °C
• Operation (max. tilt angle)	0 °C to +55 °C
— At maximum tilt angle, min.	0 °C
— At maximum tilt angle, min.	55 °C
<b>Ambient temperature during storage/transportation</b>	
• min.	-20 °C
• max.	60 °C
<b>Relative humidity</b>	
• Operation, max.	95 %

### Configuration

<b>Configuration software</b>	
• STEP 7 Basic (TIA Portal)	Yes
• STEP 7 Professional (TIA Portal)	Yes

### Functionality under WinCC (TIA Portal)

<b>Process coupling</b>	
• S7-1200	Yes
• S7-1500	Yes
• S7-200	No
• S7-300/400	Yes
• LOGO!	No
• WinAC	Yes
• SINUMERIK	No
• SIMOTION	No

• Allen Bradley (EtherNet/IP)	No
• Allen Bradley (DF1)	No
• Mitsubishi (MC TCP/IP)	No
• Mitsubishi (FX)	No
• OMRON (FINS TCP)	No
• OMRON (LINK/Multilink)	No
• Modicon (Modbus TCP/IP)	No
• Modicon (Modbus)	No

### Mechanics/material

Enclosure material (front)	
• Plastic	No
• Aluminum	Yes
• Stainless steel	No

### Service life

• Short-stroke keys (in switching cycles)	1 500 000
• LEDs (ON period)	100 %

### Dimensions

Width of the housing front	240 mm
Height of housing front	204 mm
Mounting cutout, width	226 mm
Mounting cutout, height	190 mm
Overall depth	53 mm

### Weights

Weight without packaging	1 130 g
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**last modified:** 08/16/2019