

PUSH BUTTON PANEL PP17 I 16 SHORT-STROKE KEYS 16
SURFACE LED'S, 16 DI AND 16 DO TERMINALS PROFIBUS DP12



General information

Product type designation PP17-I

Control elements

With parameterizable keys Yes

Keyboard fonts

- Membrane keyboard
 - user-definable label membrane keys Yes
- Function keys
 - Number of function keys 16
- Short-stroke keys
 - Number of short-stroke keys 16

Expansions for operator control of the process

- DP direct LEDs (LEDs as S7 output I/O) 16
- Number of color modes for LED 3
- Direct keys (keys as S7 input I/O) 16

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	12

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^2t	0.03 A ² ·s
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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
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Input voltage

• Rated value (DC)	24 V
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Digital outputs

Number of digital outputs	16
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• in groups of	4
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Short-circuit protection	Yes
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Switching capacity of the outputs

• with resistive load, max.	100 mA
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• with inductive load, max.	100 mA; max. 2 watts
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• on lamp load, max.	2 W
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Output voltage

• Rated value (DC)	24 V
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Total current of the outputs

• Current per channel, max.	100 mA
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• Current per group, max.	500 mA
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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
MRP	No
PROFIsafe	No
PROFIBUS	Yes
MPI	Yes
AS-Interface	No
EIB/KNX	No

Protocols (Ethernet)

• TCP/IP	No
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Further protocols

• 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

Test commissioning functions

Illuminant test	Yes
Key and signal lamp test	Yes; Automatically when switching on

EMC

Emission of radio interference acc. to EN 55 011

• Limit class A, for use in industrial areas	Yes
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- Limit class B, for use in residential areas

No

Degree and class of protection

IP (at the front)	IP65
Enclosure Type 4 at the front	No
Enclosure Type 4x at the front	No
IP (rear)	IP20

Standards, approvals, certificates

CE mark	Yes
cULus	No
RCM (formerly C-TICK)	No
KC approval	No
Suitable for safety functions	No

Marine approval

• 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

Use in hazardous areas

• 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

Ambient conditions

Ambient temperature during operation

• 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, max.	55 °C

Ambient temperature during storage/transportation

• min.	-20 °C
• max.	60 °C

Relative humidity

• Operation, max.	95 %
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Configuration

Configuration software

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| • STEP 7 Basic (TIA Portal) | Yes |
| • STEP 7 Professional (TIA Portal) | Yes |

Functionality under WinCC (TIA Portal)

Process coupling

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| • 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)

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|-------------------|-----|
| • Plastic | No |
| • Aluminum | Yes |
| • Stainless steel | No |

Service life

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|---|-----------|
| • 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:	04/28/2017
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