

Spare part Push Button Panel PP7 8 short-stroke keys, 8 surface LEDs, 4 DI terminals (24V) PROFIBUS DP



General information

Product type designation PP7

Control elements

With parameterizable keys Yes

Keyboard fonts

- Membrane keyboard
 - user-definable label membrane keys Yes
- Function keys
 - Number of function keys 8
- Short-stroke keys
 - Number of short-stroke keys 8

Expansions for operator control of the process

- DP direct LEDs (LEDs as S7 output I/O) 8
- Number of color modes for LED 3
- Direct keys (keys as S7 input I/O) 8

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	3

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 ² t	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	4
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Input voltage

• Rated value (DC)	24 V
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Digital outputs

Number of digital outputs	0
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Interfaces

Number of industrial Ethernet interfaces	0
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Number of PROFINET interfaces	0
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Industrial Ethernet

• Industrial Ethernet status LED	0
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• Number of ports of the integrated switch	0
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Protocols

PROFINET	No
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Supports protocol for PROFINET IO	No
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PROFINET CBA	No
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IRT	No
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MRP	No
PROFIsafe	No
PROFIBUS	Yes
MPI	Yes
AS-Interface	No
EIB/KNX	No
Protocols (Ethernet)	
• TCP/IP	No
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
• 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, min.	55 °C
Ambient temperature during storage/transportation	
• min.	-20 °C
• max.	60 °C
Relative humidity	
• Operation, max.	95 %
Configuration	
Configuration software	
• STEP 7 Basic (TIA Portal)	Yes
• STEP 7 Professional (TIA Portal)	Yes
Functionality under WinCC (TIA Portal)	
Process coupling	
• 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	144 mm
Height of housing front	204 mm
Mounting cutout, width	130 mm
Mounting cutout, height	190 mm
Overall depth	53 mm

Weights

Weight without packaging	720 g
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last modified: 04/25/2018