



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	
<ul style="list-style-type: none"> Membrane keyboard <ul style="list-style-type: none"> — user-definable label membrane keys Function keys <ul style="list-style-type: none"> — Number of function keys Short-stroke keys <ul style="list-style-type: none"> — Number of short-stroke keys 	Yes 8 8
Expansions for operator control of the process	
<ul style="list-style-type: none"> DP direct LEDs (LEDs as S7 output I/O) Number of color modes for LED Direct keys (keys as S7 input I/O) 	8 3 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 ^{2t}	0.03 A ² ·s
Type of output	
LED colors	red, yellow, green
<ul style="list-style-type: none"> red yellow green white 	Yes Yes Yes No

• blue	No
Digital inputs	
Number of digital inputs	4
Input voltage	
• Rated value (DC)	24 V
Digital outputs	
Number of digital outputs	0
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
EtherNet/IP	No
MPI	Yes
AS-Interface	No
EIB/KNX	No
Protocols (Ethernet)	
• TCP/IP	No
Redundancy mode	
Media redundancy	
— MRP	No
Further protocols	
• AS-Interface Safety at Work	No
• CAN	No
• Data-Highway	No
• DeviceNet	No
• DeviceNet Safety	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
IP (rear)	IP20
NEMA (front)	
• Enclosure Type 4 at the front	No
• Enclosure Type 4x at the front	No
Standards, approvals, certificates	
CE mark	Yes

cULus	No
RCM (formerly C-TICK)	No
KC approval	No
Suitable for safety functions	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
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
Ambient conditions	
Ambient temperature during operation	
• min.	0 °C
• max.	55 °C
Operation (vertical installation)	
— For vertical installation, min.	0 °C
— For vertical installation, max.	55 °C
Operation (max. tilt angle)	
— 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 %
configuration / header	
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
last modified:	11/12/2021 