

SIMATIC PP7/PP17

Push Button Panels – the innovative operator panels



Highlights:

- Preassigned short-stroke keys with long-life, multicolor surface LEDs
- All keys can also be used individually as switches
- Integrated flashing rates and programmable signal stretching
- Integrated lamp and key test
- Up to 16 DI/16 DO on-board for flexible expansion of e.g. keys and lamps
- Preperforated 22.5 mm cut-outs for integration of standard elements, such as pushbuttons, lamps, emergency stop switches or key-lock switches
- Individual slide-in strips for labeling, also for the 22.5 mm elements
- Units can be mounted and combined with SIMATIC panels providing a snug fit
- Central enable input
- Extremely service-friendly:
 - Maintenance-free since without battery
 - Output of operating states as plain text on rear display
 - All parameters on replaceable flash module.

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PUSH BUTTON PANELS

SIMATIC Push Button Panels are the innovative alternative to conventional operator panels offering simple plug and control. They are prefabricated and ready to install. Only the relevant installation cutout and a bus cable (PROFIBUS-DP or MPI) for connecting to the controller are required. The time-consuming individual assembly and wiring associated with

conventional control panels is therefore superfluous. This results in time savings of up to 90% compared to conventional wiring.

SIMATIC Push Button Panels can be connected using:

- PROFIBUS DP to any DP master as a standard slave up to 12 Mbit/s
- MPI to SIMATIC S7-200/-300/-400

SIEMENS

Technical specifications



	PP7	PP17-I	PP17-II
Control elements			
▪ Number of keys	8 short-stroke keys	16 short-stroke keys	32 short-stroke keys
▪ Color modes for LEDs	3	3	3
Additional digital inputs	4	16	16
Additional digital outputs	-	16	16
▪ In groups of	-	4	4
▪ Output current, max. ¹⁾	-	100 mA	100 mA
▪ Total current (per group), max.	-	500 mA	500 mA
▪ Short-circuit-protected	Yes	Yes	Yes
Service life			
▪ Short-stroke keys (in operations)	1,500,000	1,500,000	1,500,000
▪ LEDs (ON duration)	100 %	100 %	100 %
Supply voltage	24 V DC	24 V DC	24 V DC
▪ Permitted range	+18 to +30 V DC	+18 to +30 V DC	+18 to +30 V DC
▪ Current consumption, typ.	0.2 mA	0.2 mA	0.2 mA
Interfaces	1 x RS 485	1 x RS 485	1 x RS 485
Connection to controller	S5, S7-200/-300/400, WinAC, other DP standard masters	S5, S7-200/-300/400, WinAC, other DP standard masters	S5, S7-200/-300/400, WinAC, other DP standard masters
Ambient conditions			
▪ Mounting position			
– Max. permissible inclination without forced ventilation	35°	35°	35°
▪ Temperature			
– Operation (vertical installation)	0 °C to +55 °C	0 °C to +55 °C	0 °C to +55 °C
– Operation (max. inclination)	0 °C to +55 °C	0 °C to +55 °C	0 °C to +55 °C
– Transport, storage	-20 °C to +70 °C	-20 °C to +70 °C	-20 °C to +70 °C
▪ Relative humidity	95 %	95 %	95 %
Dimensions			
▪ Front panel W x H (mm)	144 x 204	240 x 204	240 x 204
▪ Installation cutout W x H (mm)	130 x 190	226 x 190	226 x 190
Weight	0.72 kg	1.13 kg	1.13 kg
Functionality			
▪ Short-stroke keys / digital inputs as pushbuttons or switches	Yes	Yes	Yes
▪ Integrated flashing rate for LEDs	0.5 Hz	0.5 Hz	0.5 Hz
▪ Integrated flashing rate for digital outputs	-	0.5 Hz or 2 Hz	0.5 Hz or 2 Hz
▪ Key and lamp test	Yes	Yes	Yes
▪ Pulse stretching for short-stroke keys and digital inputs, max.	1000 ms	1000 ms	1000 ms
▪ Enable input	-	Yes	Yes
▪ Installation slots for 22.5 mm standard elements	5	12	0
Degree of protection			
▪ Front	IP 65	IP 65	IP 65
▪ Rear	IP 20	IP 20	IP 20
Certificates	FM, UL, CSA, CE	FM, UL, CSA, CE	FM, UL, CSA, CE

tion to provide the respective characteristics shall only exist if expressly agreed in the terms of contract. Availability and technical specifications are subject to change without notice.

The information provided in this brochure contains descriptions or characteristics of performance which in case of actual use do not always apply as described or which may change as a result of further development of the products. An obliga-

1) Max. 2 Watt lamps