



spare part SIPLUS HCS4000 I/O module DI/DQ with 8 digital outputs and 8 configurable digital inputs or outputs

General information	
Product type designation	PM4000 DI/DO
Installation type/mounting	
Mounting type	Screw mounting to CIM
Mounting position	vertical
Type of ventilation	Forced ventilation
Supply voltage	
Design of the power supply	Power supply via CIM
Power	
Active power input, max.	1 W
Digital inputs	
Number of digital inputs	8
Connection method	
- Design of electrical connection at the digital inputs - Connectable conductor cross-sections, solid - Connectable conductor cross-sections, finely stranded with wire end processing - Connectable conductor cross-sections for AWG cables	plug, 18-pin with spring-type terminal, push-in 1x (0.2 ... 1.5 mm ²) 1x (0.25 ... 1.5 mm ²) 1x (24 ... 16)
Digital outputs	
Type of digital output	semiconductor output (high side switch)
Number of digital outputs	16
Switching performance	monostable
short-circuit proof	Yes
Output voltage	
- Type of output voltage - Rated value (DC) - permissible voltage at output, min. - permissible voltage at output, max.	DC 24 V 19.2 V 28.8 V
Output current	
for signal "1" permissible range, max.	500 mA
Connection method	
- Design of electrical connection at the digital outputs - Connectable conductor cross-sections, solid - Connectable conductor cross-sections, finely stranded with wire end processing - Connectable conductor cross-sections for AWG cables - Design of electrical connection for control supply voltage - Connectable conductor cross-sections with wire end processing	plug, 18-pin with spring-type terminal, push-in 1x (0.2 ... 1.5 mm ²) 1x (0.25 ... 1.5 mm ²) 1x (24 ... 16) plug, 18-pin with spring-type terminal, push-in 1x (0.25 ... 1.5 mm ²)

— Connectable conductor cross-sections for AWG cables

1x (24 ... 16)

Interfaces

Interfaces/bus type system interface

Interrupts/diagnostics/status information

Number of status displays 18
LED status display LED green = Ready, LED red = Error display, 1 LED yellow per output: LED on - H status; LED off -L status

Potential separation

between outputs and system interface Yes

Isolation

Overvoltage category III
Degree of pollution 2

EMC

EMC interference emission Limit value in accordance with IEC 61000-6-4:2007 + A1:2011
Electrostatic discharge acc. to IEC 61000-4-2 4 kV contact discharge / 8 kV air discharge
Field-related interference acc. to IEC 61000-4-3 10 V/m (80 ... 1 000 MHz), 3 V/m (1.4 ... 2.0 GHz), 1 V/m (2.0 ... 2.7 GHz)
Conducted interference due to burst acc. to IEC 61000-4-4 2 kV signal lines
Conducted interference due to surge acc. to IEC 61000-4-5 DC supply cables: 0.5 kV balanced and unbalanced
Conducted interference due to high-frequency radiation acc. to IEC 61000-4-6 10 V (0.15 ... 80 MHz)

Degree and class of protection

IP degree of protection IP20

Standards, approvals, certificates

CE mark Yes
UL approval Yes
RCM (formerly C-TICK) Yes
KC approval Yes
EAC (formerly Gost-R) Yes
China RoHS compliance Yes
reference designation according to IEC 81346-2 (2009) K

Ambient conditions

Ambient temperature during operation
• min. 0 °C
• max. 55 °C

Ambient temperature during storage/transportation
• Storage, min. -25 °C
• Storage, max. 70 °C
• Transportation, min. -25 °C
• Transportation, max. 70 °C

Air pressure acc. to IEC 60068-2-13
• Operation, min. 860 hPa
• Operation, max. 1 080 hPa
• Storage, min. 660 hPa
• Storage, max. 1 080 hPa

Altitude during operation relating to sea level
• Installation altitude above sea level, max. 2 000 m

Relative humidity
• Operation at 25 °C, max. 95 %
• Operation at 50 °C, max. 50 %; 95 % at 25 °C, decreasing linearly to 50 % at 50 °C

Vibrations
• Vibration resistance during operation acc. to IEC 60068-2-6 10 ... 58 Hz / 0.075 mm, 58 ... 150 Hz / 1 g
• Vibration resistance during storage acc. to IEC 60068-2-6 5 ... 8.5 Hz / 3.5 mm, 8.5 ... 500 Hz / 1 g

Shock testing
• Shock resistance during operation acc. to IEC 60068-2-27 15 g / 11 ms / 3 shocks/axis
• Shock resistance during storage acc. to IEC 60068-2-29 25 g / 6 ms / 1 000 shocks/axis

Dimensions

Width 27 mm
Height 141 mm

Depth	110 mm		
Classifications			
		Version	Classification
	eClass	14	27-24-40-04
	eClass	12	27-24-40-04
	eClass	9.1	27-24-40-04
	eClass	9	27-24-40-04
	eClass	8	27-24-26-04
	eClass	7.1	27-24-26-04
	eClass	6	27-24-26-04
	ETIM	9	EC002984
	ETIM	8	EC002984
	ETIM	7	EC002984
	IDEA	4	3566
	UNSPSC	15	32-15-17-05
Approvals / Certificates			
General Product Approval		EMV	



[KC](#)



last modified:

3/12/2024