

SIPLUS HCS4300 CIM4310 Central Interface Module with PROFIBUS communication



General information	
Product type designation	CIM4310 PROFIBUS
Installation type/mounting	
Mounting type	Screw mounting to POM
Mounting position	vertical
Type of ventilation	Forced ventilation
Supply voltage	
Type of supply voltage	DC
Rated value (DC)	24 V
relative symmetrical tolerance of the supply voltage	20 %
Connection method	
<ul style="list-style-type: none"> • Design of electrical connection for supply voltage <li style="padding-left: 20px;">— Connectable conductor cross-sections, solid <li style="padding-left: 20px;">— Connectable conductor cross-sections, finely stranded with wire end processing <li style="padding-left: 20px;">— Connectable conductor cross-sections for AWG cables 	Connector 2x 2-pin with tension spring connection 1x (0.2 ... 2.5 mm ²) 1x (0.2 ... 2.5 mm ²) 1x (26 ... 12)

Power	
Active power input	3 W
Hardware configuration	
Type of power output connectable	POM4320
Slots	
• Number of slots	1
Interfaces	
Interfaces/bus type	PROFIBUS DP
PROFIBUS DP	
• Transmission rate, max.	12 Mbit/s
• Design of electrical connection	9-pin sub D socket
Protocols	
Supports protocol for PROFINET IO	No
PROFIBUS DP	Yes
Further protocols	
• EtherNet/IP	No
Interrupts/diagnostics/status information	
Number of status displays	3
LED status display	LED green = ready, LED yellow = heating on/off, LED red = error display
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 power supply lines / 2 kV PROFIBUS cables
Conducted interference due to surge acc. to IEC 61000-4-5	DC supply lines: 0.5 kV symmetrical and asymmetrical, PROFIBUS lines: 1 kV asymmetrical
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 DIN EN 81346-2	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	56 mm
Height	285 mm
Depth	136 mm

last modified: 06/16/2020