## **Product data sheet**



SIPLUS HCS300I TEMPERATURE DETECTION MODULE TM4

product brand name		SIPLUS		
Inputs/ Outputs:				
Number of analog inputs				
• at 2-conductor technics		4		
• at 4-conductor technics		2		
General technical data:				
physical measuring principle		Sigma delta modulation		
Number of status displays		3		
Type of display / as status display by LED		continuous light: ready, flashing light: no connection to basic device		
Metering precision		typical +-1 K, PT100 up to max. +-1.3 K		
Diagnose function / wire breakage		Yes		
Temperature drift per °C / typical	%/°C	0.05		
Impulse voltage resistance / of the outputs / maximum	V	15		
A/D conversion time / at the analog input	ms	120		
Sensor current / typical	μA	210		
Galvanic isolation				
<ul> <li>between the outputs and system interface</li> </ul>		Yes		
between the distribution		Yes		
• note		maximum voltage difference +- 1 V		

Offset temperature per K / maximum	K/K	1
Temperature measurement deviation per K / maximum	K/K	1
Reference code / according to DIN 40719 extended according to IEC 204-2 / according to IEC 750		F
Reference code / according to DIN EN 61346-2		F
Anschließbare Messfühler:		
Metering range temperature		
at thermocouple type K	°C	0 400
Metering range temperature		
at thermocouple type J	°C	0 400
Metering range temperature		
at thermocouple type L	°C	0 400
Temperature measurement range		
at Pt 100 according to IEC 60751	°C	0 400
Temperature measurement range		
at Pt 1000 according to IEC 60751	°C	0 400
Communication:		
Design of the interface		system interface
Supply voltage:		
Design of the power supply		Supply via base unit
Ambient conditions:		
Protection class IP		IP20
Shock resistance / according to IEC 60068-2-27		15g / 11 ms
Conductor-bound parasitic coupling BURST / according to IEC 61000-4-4		2 kV power supply lines / 1 kV signal lines
Conductor-bound parasitic coupling SURGE / according to IEC 61000-4-5		on power supply lines: 1 kV symmetric, 2 kV asymmetric; on signal lines > 30 m unshielded: 1 kV symmetric, 2 kV asymmetric, > 30 m shielded: 2 kV asymmetric
Conducted interference as high-frequency radiation / according		
to IEC 61000-4-6		10 V (0.15 80 MHz)
		10 V (0.15 80 MHz) 6 kV contact discharge / 8 kV air discharge
to IEC 61000-4-6		
to IEC 61000-4-6 Electrostatic discharge / according to IEC 61000-4-2		6 kV contact discharge / 8 kV air discharge  10 V/m (80 1000 MHz), 3 V/m (1.4 2.0 GHz), 1 V/m (2.0 2.7 GHz)  IEC61131: Class A; conducted and radiated: DIN EN
to IEC 61000-4-6  Electrostatic discharge / according to IEC 61000-4-2  Field-bound parasitic coupling / according to IEC 61000-4-3	m	6 kV contact discharge / 8 kV air discharge 10 V/m (80 1000 MHz), 3 V/m (1.4 2.0 GHz), 1 V/m (2.0 2.7 GHz)
to IEC 61000-4-6  Electrostatic discharge / according to IEC 61000-4-2  Field-bound parasitic coupling / according to IEC 61000-4-3  EMC emitted interference	m	6 kV contact discharge / 8 kV air discharge  10 V/m (80 1000 MHz), 3 V/m (1.4 2.0 GHz), 1 V/m (2.0 2.7 GHz)  IEC61131: Class A; conducted and radiated: DIN EN 55011/CISPR11 (corresponds to degree of severity A)
to IEC 61000-4-6  Electrostatic discharge / according to IEC 61000-4-2  Field-bound parasitic coupling / according to IEC 61000-4-3  EMC emitted interference  Installation altitude / at a height over sea level / maximum	m °C	6 kV contact discharge / 8 kV air discharge  10 V/m (80 1000 MHz), 3 V/m (1.4 2.0 GHz), 1 V/m (2.0 2.7 GHz)  IEC61131: Class A; conducted and radiated: DIN EN 55011/CISPR11 (corresponds to degree of severity A)

K/K

Offset temperature per K / maximum

during transport	°C	-40 +80
Air pressure		
during operating phase	hPa	795 1,080
during storage	hPa	660 1,080

### **Connections:**

Type of connection 2- and 4-wire technology

#### terminals

Design of the electrical connection / for auxiliary and control current circuit

screw-type terminals

Installation/mounting/dimensions:				
mounting position		any		
Mounting type		Snap-mounting on a TH 35 mm standard rail compliant with IEC 60715 or screw-mounted using additional push-in lug		
Width	mm	22.5		
Height	mm	102		
Depth	mm	115		

# Certificates/approvals:

Verification of suitability CE, cULus, c-tick

General Product Approval **Declaration of Conformity** 





### **Further information:**

Information- and Downloadcenter (Catalogs, Brochures,...)

 $\underline{\text{http://www.automation.siemens.com/mcms/topics/en/siplus/industrial-heating-control/Pages/home.aspx}$ 

Industry Mall (Online ordering system)

http://www.siemens.com/industrial-controls/mall

**CAx-Online-Generator** 

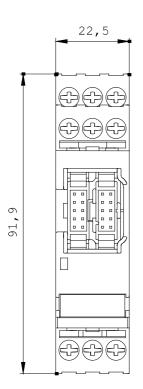
http://www.siemens.com/cax

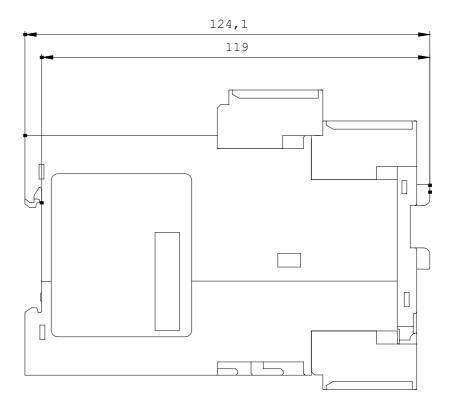
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

http://support.automation.siemens.com/WW/view/en/6BK1700-4BA60-0AA0/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=6BK1700-4BA60-0AA0





last change: Jun 16, 2014