












AS-i SlimLine Compact module SC22.5, IP20, analog, 4AI-RTD spring-type terminals 4 x analog input Thermal resistance/resistor Overall width 22.5 mm

<b>product designation</b>	Slimline Compact I/O module for use in the control cabinet
<b>design of the product</b>	AS-i SC22.5, 4AI voltage/current
<b>product type designation</b>	3RK1
<b>design of the device type</b>	standard slave
<b>AS-Interface device profile</b>	S-7.3.E
<b>ID1 code</b>	F; Factory setting, changeable
<b>operating voltage according to AS-Interface specification</b>	18 ... 31.6 V
<b>product function suitable for AS-i Power24V</b>	Yes
<b>consumed current from profile conductors of the AS-Interface</b>	
• at 30 V maximum	100 mA
• at 24 V with AS-i Power24V maximum	100 mA
<b>type of address setting of the AS-i devices</b>	via front addressing socket
<b>Substance Prohibition (day/month/year)</b>	05/01/2012
<b>SVHC substance name</b>	Lead CAS-No. 7439-92-1 Lead monoxide (lead oxide) CAS-No. 1317-36-8 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one CAS-No. 71868-10-5 Melamine CAS-No. 108-78-1 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol CAS-No. 119-47-1 Diboron trioxide CAS-No. 1303-86-2
<b>Net Weight</b>	0.22 kg
<b>reference code</b>	
• according to EN 61346-2	K
• according to DIN 40719 extended according to IEC 204-2 according to IEC 750	A
<b>shock resistance</b>	15 g / 11 ms (modules) or 10 g / 11 ms (modules with device connector)
<b>other information</b>	An auxiliary external feed (AUX POWER) of between 20 and 30 V DC is necessary for supplying the output circuits. The auxiliary feed must comply with IEC 60990 (PELV), protection class III.
<b>Digital Inputs</b>	
<b>number of digital inputs</b>	0
<b>number of digital inputs safety-related</b>	0
<b>Sensor supply</b>	
<b>type of voltage supply for sensor supply</b>	using AS-Interface
<b>Digital Outputs</b>	
<b>number of digital outputs</b>	0
<b>Analog inputs</b>	
<b>number of analog inputs</b>	4
<b>signal range at the analog input</b>	Pt 100 standard and climate range / Ni 100 / resistance measurement 0 ... 600 Ohm
<b>design of the sensor at the analog input is supported</b>	Yes

resistor temperature sensor					
product function input variable parameterizable	Yes				
A/D resolution for analog inputs/outputs	16 bit				
product function smoothing parameterizable	Yes				
set values of the interference frequency for interference voltage suppression	50 / 60 Hz				
<b>Analog outputs</b>					
number of analog outputs	0				
<b>Errors/ accuracies</b>					
relative symmetrical operational limit relating to input range/output range	1 %; full scale				
relative symmetrical basic error limit relating to input range/output range at 25 °C	0.7 %				
symmetrical temperature error per K relating to input range/output range	0.01 %/K				
relative symmetrical linearity error relating to input range/output range	0.05 %				
relative symmetrical repeat accuracy relating to input range/output range in settled state 25 °C	0.1 %				
<b>Device connector</b>					
ampacity of the interface to the device connector					
• for AS-Interface	2 A				
• for external auxiliary voltage	4 A				
<b>Installation/ mounting/ dimensions</b>					
fastening method	screw and snap-on mounting				
height	100 mm				
width	22.5 mm				
depth	120 mm				
<b>Ambient conditions</b>					
ambient temperature					
• during operation	-25 ... +70 °C				
• during storage	-40 ... +85 °C				
<b>Connections/ Terminals</b>					
type of electrical connection of the inputs and outputs	spring-loaded terminal (push-in)				
type of connectable conductor cross-sections					
• solid	1x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.5 ... 1.5 mm <sup>2</sup> )				
• finely stranded with core end processing	1x (0,25 ... 1,0 mm <sup>2</sup> ), 2x (0,25 ... 1,0 mm <sup>2</sup> )				
• finely stranded without core end processing	1x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.5 ... 1.5 mm <sup>2</sup> )				
• for AWG cables solid	1x (20 ... 16), 2x (20 ... 16)				
• for AWG cables stranded	1x (20 ... 16), 2x (20 ... 16)				
<b>Approvals Certificates</b>					
Environment	General Product Approval	EMV			
<a href="#">Environmental Confirmations</a>					
Test Certificates	Maritime application	other			
<a href="#">Type Test Certificates/Test Report</a>					<a href="#">Confirmation</a>
other	Industrial Communication				



Further information

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Siemens has decided to exit the Russian market (see here).

<https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business>

Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

Information for data generation and storage

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

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

<https://www.siemens.com/ic10>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RK1207-3CG00-2AA2>

Cax online generator

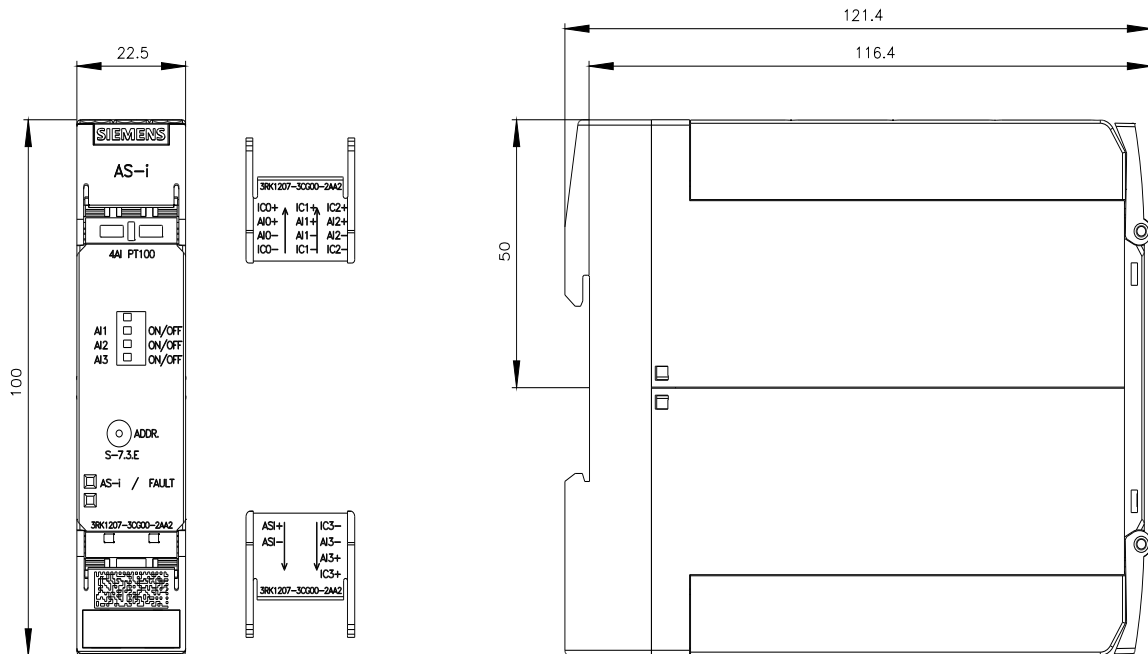
<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK1207-3CG00-2AA2>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RK1207-3CG00-2AA2>

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

[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RK1207-3CG00-2AA2&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK1207-3CG00-2AA2&lang=en)



last modified:

4/4/2026