



Temperature module, 3 inputs for connection of up to 3 temperature sensors, for SIMOCODE pro V basic unit

product brand name	SIRIUS
product designation	temperature module
General technical data	
product component	
• input for thermistor connection	No
• input for analog temperature sensors	Yes
• input for ground fault detection	No
consumed active power	0.2 W
surge voltage resistance rated value	4 000 V
protection class IP	IP20
shock resistance according to IEC 60068-2-27	15g / 11 ms
reference code according to IEC 81346-2	B
measurable temperature	
• initial value	-50 °C
• full-scale value	500 °C
Substance Prohibitance (Date)	05/01/2012
SVHC substance name	Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8
measurable temperature	
• with NTC minimum	80 °C
• with NTC maximum	160 °C
• with KTY 84 minimum	-40 °C
• with KTY 84 maximum	300 °C
• with KTY 83-110 minimum	-50 °C
• with KTY 83-110 maximum	175 °C
• with Pt 1000 minimum	-50 °C
• with Pt 1000 maximum	500 °C
• with Pt 100 minimum	-50 °C
• with Pt 100 maximum	500 °C
relative temperature-related measurement deviation at 20 °C	2 %
sensor current for Pt 100 typical	1 mA
sensor current for Pt 1000/KTY 83-110/KTY 84/NTC typical	0.2 mA
diagnostics function at sensor input with Pt 100	
• short-circuit detection	Yes
• open-circuit detection	Yes
diagnostics function at sensor input with Pt 1000	
• short-circuit detection	Yes
• open-circuit detection	Yes
diagnostics function at sensor input with KTY 83-110	
• short-circuit detection	Yes

<ul style="list-style-type: none"> open-circuit detection 	Yes
diagnostics function at sensor input with KTY 84	
<ul style="list-style-type: none"> short-circuit detection 	Yes
<ul style="list-style-type: none"> open-circuit detection 	Yes
diagnostics function at sensor input with NTC	
<ul style="list-style-type: none"> short-circuit detection 	Yes
<ul style="list-style-type: none"> open-circuit detection 	No
type of connection technology of sensor circuit	2-wire or 3-wire connection
A/D conversion time at sensor circuit	500 ms
Electromagnetic compatibility	
EMC emitted interference according to IEC 60947-1	class A
EMC immunity according to IEC 60947-1	corresponds to degree of severity 3
conducted interference	
<ul style="list-style-type: none"> due to burst according to IEC 61000-4-4 	1 kV
<ul style="list-style-type: none"> due to conductor-earth surge according to IEC 61000-4-5 	2 kV
<ul style="list-style-type: none"> due to conductor-conductor surge according to IEC 61000-4-5 	1 kV
field-based interference according to IEC 61000-4-3	10 V/m
Inputs/ Outputs	
number of inputs	3
number of digital inputs	0
number of analog inputs	3
number of outputs as contact-affected switching element	0
number of analog outputs	0
Protective and monitoring functions	
design of the sensor for temperature measurement connectable	PT100 / PT1000 / KTY83-110 / KTY84 / NTC
Precision	
temperature drift per °C	0.05 %/°C
Installation/ mounting/ dimensions	
mounting position	any
fastening method	screw and snap-on mounting
height	92 mm
width	22.5 mm
depth	124 mm
required spacing	
<ul style="list-style-type: none"> top 	40 mm
<ul style="list-style-type: none"> bottom 	40 mm
<ul style="list-style-type: none"> left 	0 mm
<ul style="list-style-type: none"> right 	0 mm
Connections/ Terminals	
type of connectable conductor cross-sections	
<ul style="list-style-type: none"> solid 	1x (0.5 ... 4.0 mm ²), 2x (0.5 ... 2.5 mm ²)
<ul style="list-style-type: none"> finely stranded with core end processing 	1x (0.5 ... 2.5 mm ²), 2x (0.5 ... 1.5 mm ²)
<ul style="list-style-type: none"> for AWG cables solid 	1x (20 ... 14), 2x (20 ... 16)
<ul style="list-style-type: none"> for AWG cables stranded 	1x (20 ... 12), 2x (20 ... 14)
tightening torque with screw-type terminals	0.8 ... 1.2 N·m
tightening torque [lbf·in] with screw-type terminals	7 ... 10.3 lbf·in
Ambient conditions	
installation altitude at height above sea level	
<ul style="list-style-type: none"> 1 maximum 	2 000 m
<ul style="list-style-type: none"> 2 maximum 	3 000 m; max. +50 °C (no protective separation)
<ul style="list-style-type: none"> 3 maximum 	4 000 m; max. +40 °C (no protective separation)
ambient temperature	
<ul style="list-style-type: none"> during operation 	-25 ... +60 °C
<ul style="list-style-type: none"> during storage 	-40 ... +80 °C
<ul style="list-style-type: none"> during transport 	-40 ... +80 °C
environmental category	
<ul style="list-style-type: none"> during operation according to IEC 60721 	3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6
<ul style="list-style-type: none"> during storage according to IEC 60721 	3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6

- during transport according to IEC 60721

3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6

relative humidity during operation 5 ... 95 %

Electrical Safety

touch protection against electrical shock finger-safe

Galvanic isolation

galvanic isolation between inputs and electronics No

Approvals Certificates

General Product Approval



EG-Konf.

[Confirmation](#)



CCC



UL



EMC

Test Certificates

Marine / Shipping

other



RCM

[Type Test Certificates/Test Report](#)



ABS



DNV



RMRS

[Confirmation](#)

Further information

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

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

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).

Information on the packaging

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

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=3UF7700-1AA00-0>

Cax online generator

<http://support.automation.siemens.com/WWW/CAXorder/default.aspx?lang=en&mlfb=3UF7700-1AA00-0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3UF7700-1AA00-0>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UF7700-1AA00-0&lang=en

Test report No. A0258, protective separation

<https://support.industry.siemens.com/cs/ww/en/view/109748152>



