



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

product brand name	SIMOCODE
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
shock resistance according to IEC 60068-2-27	15g / 11 ms
vibration resistance according to IEC 60068-2-6	1 ... 6 Hz: 15 mm, 6 ... 500 Hz: 2g
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	Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8
Net Weight	131 g
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

<b>diagnostics function at sensor input with KTY 83-110</b>	
• short-circuit detection	Yes
• open-circuit detection	Yes
<b>diagnostics function at sensor input with KTY 84</b>	
• short-circuit detection	Yes
• open-circuit detection	Yes
<b>diagnostics function at sensor input with NTC</b>	
• short-circuit detection	Yes
• open-circuit detection	No
<b>type of connection technology of sensor circuit</b>	2-wire or 3-wire connection
<b>A/D conversion time at sensor circuit</b>	500 ms
<b>Electromagnetic compatibility</b>	
EMC emitted interference according to IEC 60947-1	class A
EMC immunity according to IEC 60947-1	corresponds to degree of severity 3
<b>conducted interference</b>	
• due to burst according to IEC 61000-4-4	1 kV
• due to conductor-earth surge according to IEC 61000-4-5	2 kV
• due to conductor-conductor surge according to IEC 61000-4-5	1 kV
<b>field-based interference according to IEC 61000-4-3</b>	10 V/m
<b>Inputs/ Outputs</b>	
<b>number of inputs</b>	3
<b>number of digital inputs</b>	0
<b>number of analog inputs</b>	3
<b>number of outputs as contact-affected switching element</b>	0
<b>number of analog outputs</b>	0
<b>Protective and monitoring functions</b>	
design of the sensor for temperature measurement connectable	PT100 / PT1000 / KTY83-110 / KTY84 / NTC
<b>Precision</b>	
<b>temperature drift per °C</b>	0.05 %/°C
<b>Installation/ mounting/ dimensions</b>	
<b>mounting position</b>	any
<b>fastening method</b>	screw and snap-on mounting
<b>height</b>	92 mm
<b>width</b>	22.5 mm
<b>depth</b>	124 mm
<b>required spacing</b>	
• top	40 mm
• bottom	40 mm
• left	0 mm
• right	0 mm
<b>Connections/ Terminals</b>	
type of electrical connection for auxiliary and control circuit	screw-type terminals
<b>type of connectable conductor cross-sections</b>	
• solid	1x (0.5 ... 4.0mm²), 2x (0.5 ... 2.5 mm²)
• finely stranded with core end processing	1x (0.5 ... 2.5 mm²), 2x (0.5 ... 1.5 mm²)
• for AWG cables solid	1x (20 ... 14), 2x (20 ... 16)
• 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
<b>Ambient conditions</b>	
<b>installation altitude at height above sea level</b>	
• 1 maximum	2 000 m
• 2 maximum	3 000 m; max. +50 °C (no protective separation)
• 3 maximum	4 000 m; max. +40 °C (no protective separation)
<b>ambient temperature</b>	
• during operation	-25 ... +60 °C
• during storage	-40 ... +80 °C
• during transport	-40 ... +80 °C

<b>environmental category</b>	
<ul style="list-style-type: none"> <li>during operation according to IEC 60721</li> <li>during storage according to IEC 60721</li> <li>during transport according to IEC 60721</li> </ul>	3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 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 %
<b>Electrical Safety</b>	
<b>touch protection against electrical shock</b>	finger-safe
<b>Galvanic isolation</b>	
galvanic isolation between inputs and electronics	No
<b>Approvals Certificates</b>	
<b>General Product Approval</b>	EMV



EMV	Test Certificates	Maritime application	other
	<a href="#">Type Test Certificates/Test Report</a>		

other	Environment	Industrial Communication
<a href="#">Confirmation</a>		

#### Further information

##### 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=3UF7700-1AA00-0>

##### Cax online generator

<https://support.automation.siemens.com/WW/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, ...)

[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3UF7700-1AA00-0&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UF7700-1AA00-0&lang=en)



