

\*\*\* SPARE PART\*\*\* SIMATIC SC,ELECTRONIC  
SUBMODULE 2 AI,  
4..20MA, +/-20MA

<b>Supply voltage</b>	
<b>Load voltage 1L+</b>	
Rated value (DC)	24 V
Reverse polarity protection	Yes
<b>Input current</b>	
from supply voltage L+, max.	30 mA
<b>Power losses</b>	
Power loss, max.	0.6 W
<b>Hardware configuration</b>	
<b>Rack</b>	
Required terminal block	TB 16SC
<b>Slots</b>	
Required slots	1 ; from 8
<b>Analog inputs</b>	
Number of analog inputs	2
permissible input current for current input (destruction limit), max.	40 mA ; Permanent
<b>Input ranges</b>	
Current	Yes
<b>Input ranges (rated values), currents</b>	
-20 to +20 mA	Yes
Input resistance (-20 to +20 mA)	50 Ω
4 to 20 mA	Yes
Input resistance (4 to 20 mA)	50 Ω
<b>Thermocouple (TC)</b>	
<b>Temperature compensation</b>	
Parameterizable	No
<b>Characteristic linearization</b>	
Parameterizable	No
<b>Cable length</b>	
Cable length, shielded, max.	200 m
<b>Encoder</b>	

Connection of signal encoders	
for voltage measurement as 2-wire transducer	Yes ; 4-wire transformer with external transmitter feed
for current measurement as 2-wire transducer	Yes ; with external transmitter supply
for current measurement as 4-wire transducer	Yes
Errors/accuracies	
Linearity error (relative to input range), (+/-)	0.05 %
Temperature error (relative to input range), (+/-)	0.01 %/K
Crosstalk between the inputs, min.	50 dB ; At 50/60 Hz
Repeat accuracy in steady state at 25 °C (relative to input area), (+/-)	0.1 %
Operational limit in overall temperature range	
Current, relative to input area, (+/-)	1 %
Basic error limit (operational limit at 25 °C)	
Current, relative to input area, (+/-)	0.8 %
Interference voltage suppression for $f = n \times (f_1 +/ - 1 \%)$ , $f_1 = \text{interference frequency}$	
Series mode interference (peak value of interference < rated value of input range), min.	70 dB
common mode voltage (USS < 2.5 V) , min.	90 dB
Interrupts/diagnostics/status information	
Alarms	
Alarms	No
Diagnostic messages	
Diagnostic functions	No
Galvanic isolation	
Galvanic isolation analog inputs	
between the channels	No
between the channels and the backplane bus	No ; Optocoupler
between the channels and the power supply of the electronics	No
Permissible potential difference	
between inputs and MANA (UCM)	2 V DC / 2 Vpp AC
Isolation	
Isolation checked with	1500 V AC
Dimensions	
Width	10 mm
Height	64 mm
Depth	51 mm
Weights	
Weight, approx.	20 g
Status	Dec 12, 2014