

## Data sheet

SM 231 (231-1FD00)

## Technical data

Order no.	231-1FD00
Туре	SM 231
General information	
Note	-
Features	4x fast AI 16 Bit Voltage +/- 10 V, +/- 4 V, +/- 400 mV Current +/- 20 mA, 420 mA Parameterizable 0,8 ms cycle time
Current consumption/power loss	
Current consumption from backplane bus	300 mA
Power loss	1.5 W
Technical data analog inputs	
Number of inputs	4
Cable length, shielded	200 m
Rated load voltage	-
Current consumption from load voltage L+ (without load)	-
Voltage inputs	yes
Min. input resistance (voltage range)	10 MOhm
Input voltage ranges	-400 mV +400 mV -4 V +4 V -10 V +10 V
Operational limit of voltage ranges	+/-0.2% +/-0.4%
Operational limit of voltage ranges with SFU	-
Basic error limit voltage ranges	+/-0.1% +/-0.3%
Basic error limit voltage ranges with SFU	-
Destruction limit voltage	max. 15V
Current inputs	yes
Max. input resistance (current range)	57 Ohm
Input current ranges	+4 mA +20 mA -20 mA +20 mA
Operational limit of current ranges	+/-0.2% +/-0.5%
Operational limit of current ranges with SFU	-
Grundfehlergrenze Strombereiche	+/-0.1% +/-0.3%
Radical error limit current ranges with SFU	-
Destruction limit current inputs (electrical current)	max. 50mA
Destruction limit current inputs (voltage)	-
Resistance inputs	-
Resistance ranges	-
Operational limit of resistor ranges	-
Operational limit of resistor ranges with SFU	-
Basic error limit	-
Basic error limit with SFU	-
Destruction limit resistance inputs	-
Resistance thermometer inputs	-



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16
successive approximation
0.2 ms/channel
-
O. Dusta
8 Byte
о вуше
none
none
none yes
none yes yes, parameterizable
none  yes  yes, parameterizable  yes, parameterizable
none yes yes, parameterizable yes, parameterizable yes
none yes yes, parameterizable yes, parameterizable yes possible
none yes yes, parameterizable yes, parameterizable yes possible none none
none yes yes, parameterizable yes, parameterizable yes possible none
none yes yes, parameterizable yes, parameterizable yes possible none none
none yes yes, parameterizable yes, parameterizable yes possible none none
none yes yes, parameterizable yes, parameterizable yes possible none none red LED per channel
none yes  yes, parameterizable yes, parameterizable yes possible none none red LED per channel
none  yes  yes, parameterizable  yes, parameterizable  yes  possible  none  none  red LED per channel  -  -  yes
none yes yes, parameterizable yes, parameterizable yes possible none none red LED per channel  yes
none yes yes, parameterizable yes, parameterizable yes possible none none red LED per channel  yes
none  yes  yes, parameterizable  yes, parameterizable  yes  possible  none  none  red LED per channel  -  -  DC 2 V
none  yes  yes, parameterizable  yes, parameterizable  yes  possible  none  none  red LED per channel  -  -  DC 2 V  -
none yes yes, parameterizable yes, parameterizable yes possible none none red LED per channel  DC 2 V - DC 75 V/ AC 50 V
none yes yes, parameterizable yes, parameterizable yes possible none none red LED per channel  DC 2 V - DC 75 V/ AC 50 V -
none yes yes, parameterizable yes, parameterizable yes possible none none red LED per channel  DC 2 V - DC 75 V/ AC 50 V
none  yes  yes, parameterizable  yes  possible  none  none  red LED per channel  -  -  DC 2 V  -  DC 75 V/ AC 50 V  -  DC 500 V
none yes yes, parameterizable yes, parameterizable yes possible none none red LED per channel  DC 2 V - DC 75 V/ AC 50 V -



Parameter bytes	34
Diagnostic bytes	12
Housing	
Material	PPE / PA 6.6
Mounting	Profile rail 35 mm
Mechanical data	
Dimensions (WxHxD)	25.4 mm x 76 mm x 88 mm
Net weight	90 g
Weight including accessories	-
Gross weight	-
Environmental conditions	
Operating temperature	0 °C to 60 °C
Storage temperature	-25 °C to 70 °C
Certifications	
UL certification	yes
KC certification	-