

Data sheet

SM 231 (231-1FD00)

Technical data

Type SM 231 General information Note - Features 4x fast Al 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	
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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 -	

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Resistance thermometer ranges - Operational limit of resistance thermometer ranges - Operational limit of resistance thermometer ranges with SFU - Basic error limit thermoresistor ranges with SFU - Destruction limit resistance thermometer inputs - Thermocouple inputs - Sealed error limit thermocouple ranges - Operational limit of thermocouple ranges with SFU - Basic error limit thermocouple inputs - Personal temperature compensation - External temperature compensation - Internal temperature compensation - Temperature error internal compensation - Resolution in bit 16 Measurement principle - Basic conversion time 0 2 ms/channel Noise suppression for frequency - Initial data size 8 byte		
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Thermocouple inputs	Basic error limit thermoresistor ranges with SFU	-
Thermocouple ranges - Operational limit of thermocouple ranges - Basic error limit thermoclement ranges - Basic error limit thermoclement ranges with SFU - Destruction limit thermoclement ranges with SFU - Destruction limit thermocouple inputs - Programmable temperature compensation - External temperature compensation - Temperature error internal compensation - Temperature error internal compensation - Temperature error internal compensation - Technical unit of temperature measurement - Resolution in bit 16 Measurement principle successive approximation Basic conversion time 0.2 ms/channel Noise suppression for frequency - Initial data size 8 byte Status information, alarms, diagnostics Status display Process alarm yes Diagnostic interrupt yes, parameterizable Diagnostic information read-out possible Supply voltage display none Channel error dis	Destruction limit resistance thermometer inputs	-
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Insulation tested with DC 500 V Datasizes		
Datasizes		DC 500 V
		8
	mpac system	

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Output bytes	0	
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	-	