

Data sheet

SM 232 (232-1BD51)

Technical data

Order no.	232-1BD51
Туре	SM 232
General information	
Note	-
Features	4x AO 12 Bit Voltage +/- 10 V, 15 V, 010 V Current +/- 20 mA, 0/420 mA Parameterizable
Current consumption/power loss	
Current consumption from backplane bus	75 mA
Current consumption from load voltage L+ (without load)	-
Power loss	1.8 W
Technical data analog outputs	
Number of outputs	4
Cable length, shielded	200 m
Rated load voltage	DC 24 V
Reverse polarity protection of rated load voltage	yes
Current consumption from rated load voltage	60 mA
Voltage output short-circuit protection	yes
Voltage outputs	yes
Min. load resistance (voltage range)	1 kOhm
Max. capacitive load (current range)	1 µF
Max. inductive load (current range)	30 mA
Output voltage ranges	-10 V +10 V +1 V +5 V 0 V +10 V
Operational limit of voltage ranges	+/-0.4% +/-0.8%
Basic error limit voltage ranges	+/-0.2% +/-0.4%
Destruction limit against external applied voltage	max. 15V
Current outputs	yes
Max. in load resistance (current range)	500 Ohm
Max. inductive load (current range)	10 mH
Typ. open circuit voltage current output	12 V
Output current ranges	0 mA +20 mA +4 mA +20 mA -20 mA +20 mA
Operational limit of current ranges	+/-0.3% +/-0.8%
Basic error limit current ranges	+/-0.2% +/-0.5%
Destruction limit against external applied voltage	max. 15V
Settling time for ohmic load	0.05 ms
Settling time for capacitive load	0.5 ms
Settling time for inductive load	0.1 ms
Resolution in bit	12
Conversion time	0.45 ms / channel



Substitute value can be applied	no
Output data size	8 Byte
Status information, alarms, diagnostics	
Status display	none
Interrupts	yes
Process alarm	no
Diagnostic interrupt	yes, parameterizable
Diagnostic functions	yes
Diagnostics information read-out	possible
Supply voltage display	none
Group error display	red SF LED
Channel error display	none
Isolation	
Between channels	
Between channels of groups to	
Between channels and backplane bus	yes
Between channels and power supply	yes
Max. potential difference between circuits	-
Max. potential difference between inputs (Ucm)	
Max. potential difference between Mana and Mintern (Uiso)	DC 75 V/ AC 50 V
Max. potential difference between inputs and Mana (Ucm)	-
Max. potential difference between inputs and Mintern (Uiso)	-
Max. potential difference between Mintern and outputs	-
Insulation tested with	DC 500 V
Datasizes	
Input bytes	0
Output bytes	8
Parameter bytes	8
Diagnostic bytes	4
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	100 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	-