

Strain gauge measuring amplifier

INTEGRATED MEASURING AMPLIFIER

Data sheet

Technical data of integrated measuring amplifiers
for sensor types: SK, DD 2.x, DD 3.x, SW 2.x, SW 4.x, SW 5.x, SW 6.x

Measuring amplifier type	Output signal Sig	Supply U _b	Load	Resolution
MA with 3-conductor current output *	1...9 mA 4...20 mA 12 ± 8 mA	10...30 V	< (U _b - 6V) / Sig _{max} ; max. 500 Ω	11 bit
MA with 2-conductor current output	4...20 mA 12 ± 8 mA	10...30 V	< (U _b - 8V) / Sig _{max} ; max. 500 Ω	11 bit
MA with voltage output	0...5 V 2,5 ± 2,5 V	6...30 V	> 10000 Ω	11 bit
	0...10 V 5 ± 5 V	11...30 V		
	± 10 V	12...30 V		
MA with RS 485 interface * (digital)	0...32767 digits	6...30 V	-	14 bit

* available with test signal on request

- » Max. power consumption 40 mA
- » Measuring rate 1000 Hz (optional 30...2000 Hz)
- » Reverse voltage protection available

Technical data of integrated measuring amplifier
for sensor types: SW 3.x, ZD

Measuring amplifier type	Output signal Sig	Supply U _b	Load	Resolution
MA with 3-conductor current output	1...9 mA 4...20 mA 12 ± 8 mA	10...30 V	< (U _b - 6V) / Sig _{max} ; max. 500 Ω	11 bit
MA with 2-conductor current output	4...20 mA 12 ± 8 mA	10...30 V	< (U _b - 8V) / Sig _{max} ; max. 500 Ω	11 bit
MA with voltage output	0...5 V 2,5 ± 2,5 V	6...30 V	> 10000 Ω	11 bit
	0...10 V 5 ± 5 V	11...30 V		

- » Max. power consumption 40 mA
- » Measuring rate 1000 Hz (optional 30...2000 Hz)
- » Reverse voltage protection available