

RM4220

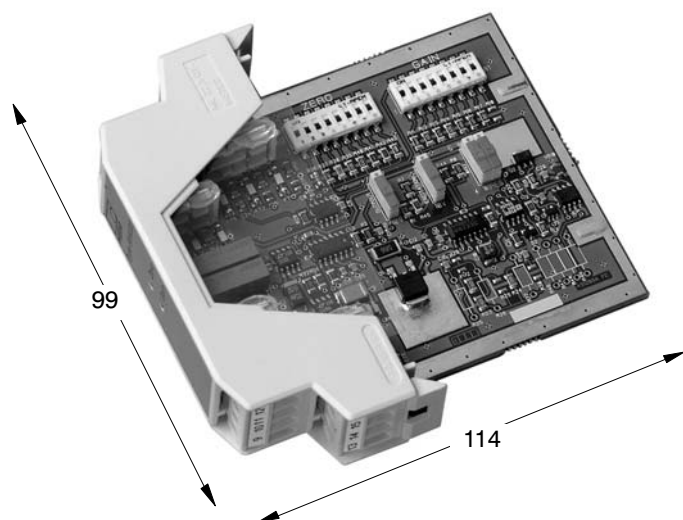
Amplifier for SG-Transducers



Special features

- Amplifier for up to four 350 Ω transducers
- To use for mounting on DIN rails
- Output ± 10 V, 0 ... 10 V and 4 ... 20 mA
- Adjustment via DIP switches and potentiometers
- Service friendly via using plug-in terminal

Dimensions (in mm; 1 mm = 0.03937 inches)



View from above



View of mounting side



Specifications

Type		RM4220
Accuracy class		0.1
Zero adjustment Maximum for impedance 87 Ω	mV/V	± 2.00
Amplifier gain Maximum Minimum		8500 80
Strain gage full bridge Bridge excitation voltage Strain gage impedance Strain gage sensitivity	V _{DC} Ω mV/V	5/10 ≥ 80 0.3 ... 12
Input current Input impedance	nA Ω	5 typ. 10 ¹⁰
Output current Maximum non-linearity Output impedance Load resistance	mA % FSO MΩ Ω	4/20 ± 0.015 typ. 40 max. 800
Output voltage Output short-circuit current Max. non-linearity	V mA % FSO	0/10 or ± 10 ± 22 G = 1000 (± 0.001)
Filter (3rd order) Maximum Minimum / standard	Hz Hz	5000 ± 10 3 ± 10%
Thermal drift Input offset voltage drift Thermal sensitivity drift	V output μV/°C ppm/°C	± 10 typ. ± 0.2 / ± 5 G 150
Max. current consumption Fixture Connection	mA	200 Mounting rail TS35 as per DIN EN 60750 Screw terminal
Power supply	V _{DC}	24 ± 8
Operating temperature range	°C [°F]	0 ... +70 [32 ... 158]
Storage temperature range	°C [°F]	-40 ... +85 [-40 ... 185]
Temperature stabilization time	min	15
Inflammability		VO (UL94)
Degree of protection		IP 20
Dimensions (L x W x H)	mm	115 x 100 x 23
Housing material Color		Polyamide PA grey
Weight, approx.	g	130

Modifications reserved.
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