

# RM4220

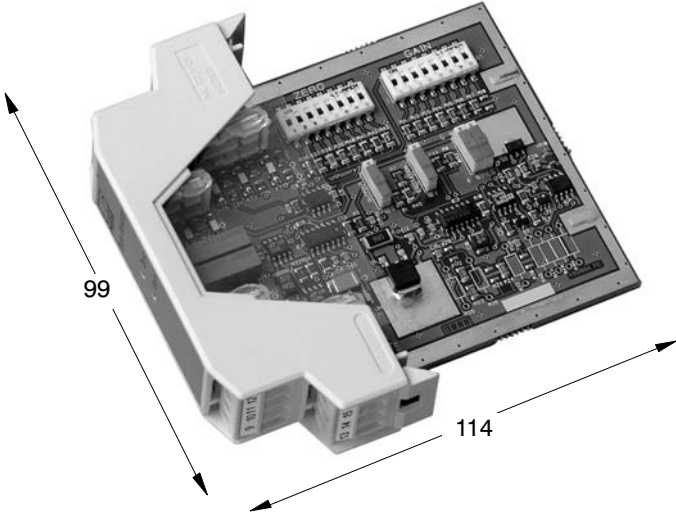
## Amplifier for SG-Transducers



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

Modifications reserved.

All details describe our products in general form only. They are not to be understood as express warranty and do not constitute any liability whatsoever.

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