

Technical data - Measuring amplifier KMV 03

Designation		KMV 03
Design		aluminium flanged housing
Accuracy class		0,1
Sensors to be connected: - strain gauge, full bridge	Ω	admissible connection impedance 350 to 1000
Bridge excitation voltage	V DC	10
Nominal gain G_{nom}		667
Nominal measuring range U_{sig}	mV	± 15
Adjustment range zero (ZERO)	% F_N	± 45
Cut-off frequency f_C (-3 dB)	Hz	approx. 70
Output - voltage output (standard) - current output 0-20 (optional) - current output 4-20 (optional)	V mA mA	0 to ± 10 , max. 1 mA 0 to + 20, admissible load 0 to 300 Ω 4 to + 20, admissible load 0 to 300 Ω
Nominal temperature range	$^{\circ}C$	0 to + 50
Operation temperature range	$^{\circ}C$	0 to + 50
Storage temperature range	$^{\circ}C$	- 30 to + 75
Temperature influence per 10 $^{\circ}C$ - on zero at amplifier output - on calibration	mV % ¹	< 10 < 0,05
Supply voltage	V DC	20 to 28
Current consumption (with 350 Ω bridge, no load)	mA	approx. 36
Dimensions (L x W x H)	mm	50 x 64 x 33
Weight (without connection cable)	g	approx. 100
Connection cable - Sensor connection - Power / Out connection	robust, flexible, shielded, 4 x 0,14 mm ² cable $\varnothing$ 4,5 mm, open ends with splices sheath special PVC operating temperature -30 to +80 $^{\circ}C$ 0,4 m long, fixed connection 3 m long, open ends with splices	

¹ of final value

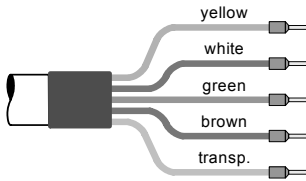
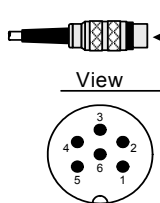
Explanation of grammalogue:

f_C $\Rightarrow$ Cutt-off frequency
 G_{nom} $\Rightarrow$ Nominal Gain

U_{sig} $\Rightarrow$ Input voltage
 F_N $\Rightarrow$ Nominal measuring force

*Technical execution subject to change without prior notice.
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Connections

Standard: connection type „O“			Option: connection type „S“			
	yellow	+24V DC	Power supply		1 +24V DC	Power supply
	white	↕ GND 24V			2 ↕ GND 24V	
	green	Signal	Output		3 Shield (not connected to housing)	
	brown	⌞ GND signal			4 ⌞ GND signal	Output
	transp.	Shield (not connected to housing)	5 Signal		6 Reserved	

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Dimensions

