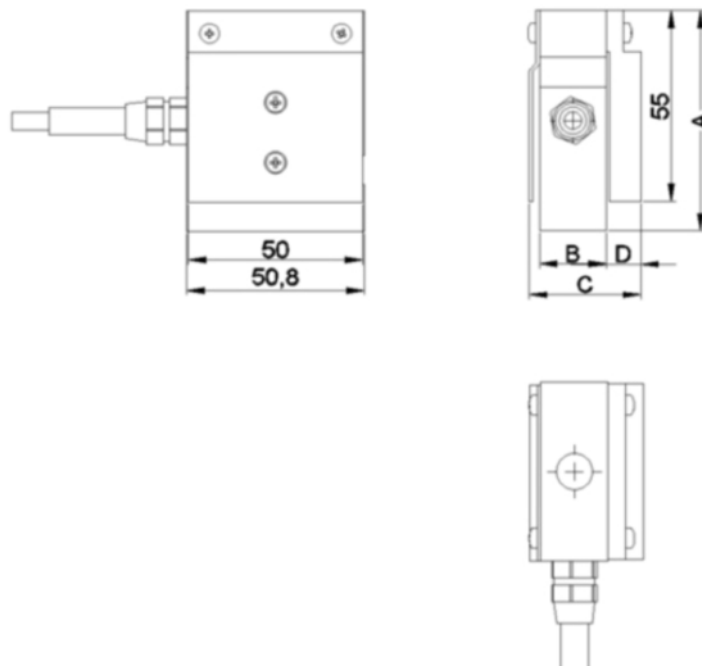


Series KM1402 / KT1402

- Capacity from 0...50N to 0...2KN
- Calibration either in tension or compression
- Optionally loadcell only (KM1402) or with integrated amplifier (KT1402)
- Taring function (KT1402)
- RS232 / RS485 optional (KT1402)
- Special functions (KT1402)



Dimensional Drawing



Capacity	KM1402				KT1402		M
	A	B	C	D	C	D	
50N; 100N; 200N	63,5	12,7	18,9	3,1	25,8	10	M6 x 1
500N; 1000N	76,2	19	25,4	3,2	32,2	10	M12 x 1,75
2000N	76,2	25,4	31,8	3,2	38,6	10	M12 x 1,75

Series KM1402 / KT1402

Technical Data	KM1402	KT1402
Capacity (0 to ...)	50; 100; 200; 500; 1000; 2000 N	
Operating Overload	120 % F.S.	
Safe Overload	150 % F.S.	
Ultimate Overload	> 200% F.S.	
Rated Output	2 mV/V	-
Rated Output Tolerance	10% F.S.	-
Zero Balance	2% F.S.	1 % F.S.**
Non-Linearity	0,06% F.S.	
Hysteresis	0,06% F.S.	
Creep (30 min.)	0,06% F.S.	
Total Error *	0,15% F.S.	
Non-Repeatability	0,04% F.S.	
Temp.Effect on Zero	0,06% F.S./10K	
Temp.Effect on Output	0,06% F.S./10K	
Legend:	*) Hysteresis included **) Electronic version 2410: no signal change < 1% F.S. (for analog signal only, digital signal without limitation) All above values in %F.S. < = ± values. Calibration protocol included.	

Mechanical Data	
Measuring Method	Foil Strain Gage Full Bridge
Material Loadcell	Aluminium

Ambient Conditions	KM1402	KT1402
Compensated Temperature	-10 ... +40°C	0 ... +40°C
Operating Temperature	-20 ... +60°C	-20 ... +60°C
Storage Temperature	-20 ... +80°C	-20 ... +80°C
Protection Class	IP 65	IP 64

Electrical Data	KM1402	KT1402
Input Impedance	410 ± 15 Ω	-
Output Impedance	350 ± 3 Ω	-
Insulation	> 2000 MΩ	> 2000 MΩ
Recommended Excitation	10 VDC typ. / 15 VDC max.	24 VDC ± 20%
Cable Size	4-wire shielded, 2m	8-wire shielded, 2m

Series KM1402 / KT1402

Signal Versions

	Supply	Signal
0000 without amplifier	10 V	20 mV
2410 built in amplifier	24 V	0...10 V
2442 built in amplifier	24 V	4...20 mA

Electrical Connection

Wiring	0000		2410 / 2442	
	black	Excitation -	white	Excitation -
	red	Excitation +	brown	Excitation +
	green	Signal +	green	Signal analog
	white	Signal -	yellow	Tx / A (RS485)
	Shield	on housing	grey	Rx / B (RS485)
			pink	GW 1
			blue	GW 2
			red	Tara
			Shield	on housing

Ordering Code

Ordering Code					Accessories
Series	KM1402				External Amplifiers <ul style="list-style-type: none"> • EMA3-DMS / EMA3-2DMS • IPG-DMS / IPG-2DMS • SI-DMS • IMA2-DMS
	KT1402				
Capacity		50N			
		100N			
		200N			
		500N			
		1KN			Displays <ul style="list-style-type: none"> • DH28-DMS • Modig
		2KN			
Connection			K		
Amplifier				0000 (KM1402)	
				2410 (KT1402)	
				2442 (KT1402)*	
Force Direction					D (KT1402)
					Z (KT1402)*

short-term stock types can be found on: <http://www.megatron.de/en/stocklists/load-cells/lagerliste.html>

bold print = standard option

(*) = on request available for projects

19.02.2015