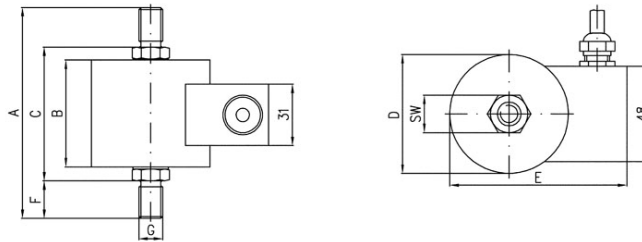


Series KM1101 / KT1101

- Capacity from 500N to 50kN
- Calibration either in tension or compression
- Optionally loadcell only (KM1101) or with integrated amplifier (KT1101)
- Calibration in N or kg, Protocol included
- Loadcell in steel



Dimensional Drawing



Capacity	A	B	C	D	E	F	G	SW	Weight
500N / 50kg	107	54	67	59	90	20	M12	19	870g
1kN / 100kg	107	54	67	59	90	20	M12	19	870g
2kN / 200kg	107	54	67	59	90	20	M12	19	870g
5kN / 500kg	112	60	76	47	75	18	M12	19	700g
10kN / 1t	128	64	80	60	75	24	M16	24	960g
20kN / 2t	145	68	85	60	90	30	M22	24	1140g
50kN / 5t	232	101	127	89	116	53	M36	46	3610g

Series KM1101 / KT1101

Technical Data	KM 1101		KT 1101	
Capacity (0 to ...)	0,5; 1; 2; 5; 10 kN		20; 50 kN	
Operating Overload	120% F.S.			
Safe Overload	125% F.S.			
Ultimate Overload	> 200% F.S.			
Rated Output	2 mV/V	-	2 mV/V	-
Rated Output Tolerance	20% F.S.	-	20% F.S.	-
Zero Balance	1% F.S.	1% F.S.**	1% F.S.	1% F.S.**
Non-Linearity	0,05% F.S.		0,1% F.S.	
Hysteresis	0,1% F.S.		0,15% F.S.	
Creep (30min.)	0,08% F.S.		0,1% F.S.	
Total Error *	0,15% F.S.	0,17% F.S.	0,25% F.S.	
Non-Repeatability	0,03% F.S.		0,05% F.S.	
Temp.Effect on Zero	0,05% F.S./10K	0,15% F.S./10K	0,1% F.S./10K	0,15% F.S./10K
Temp.Effect on Output	0,05% F.S./10K	0,2% F.S./10K	0,1% F.S./10K	0,2% F.S./10K
Dynamic Load Capacity	70% F.S.			
Resonance Frequency	2,8 ... 3,8 kHz			
Fullscale Deflection	ca. 0,2 mm			
Limiting Lateral Load	50% F.S.			
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	Steel (40 CrNiMoA)

Ambient Conditions	KM1101	KT1101
Compensated Temperature	-10 ... +60° C	0 ... +60° C
Operating Temperature	-30 ... +75° C	0 ... +70° C
Storage Temperature	-30 ... +90° C	-30 ... +80° C
Protection Class	IP 42	IP 42

Electrical Data	KM1101	KT1101
Input Impedance	380 ± 5 Ω	-
Output Impedance	350 ± 3 Ω	-
Insulation	> 3000 MΩ	> 3000 MΩ
Recommended Excitation	10 VDC typ. / 15 VDC max.	24VDC
Cable Size	5-wire shielded, 2m	

Series KM1101 / KT1101

Signal Versions

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

Electrical Connection

Wiring	0000	2410/2442
yellow	Excitation -	Excitation Ground
brown	Excitation +	24 V
green	Signal +	Signal
white	Signal -	Signal Ground
grey	n.c.	n.c.
Shield	On request shield on housing	On request shield on housing

Ordering Code

Series	KM1101		KT1101	
Capacity	500N	1KN	2KN	5KN
	10KN	20KN	50KN	
Connection	K			
Amplifier	0000 (KM1101)			
	2410 (KT1101)			
	2442 (KT1101)*			
Force Direction	D			
	Z*			

Accessories

External Amplifier

- IMA2-DMS

(*) = on request available for projects

24.05.2016