

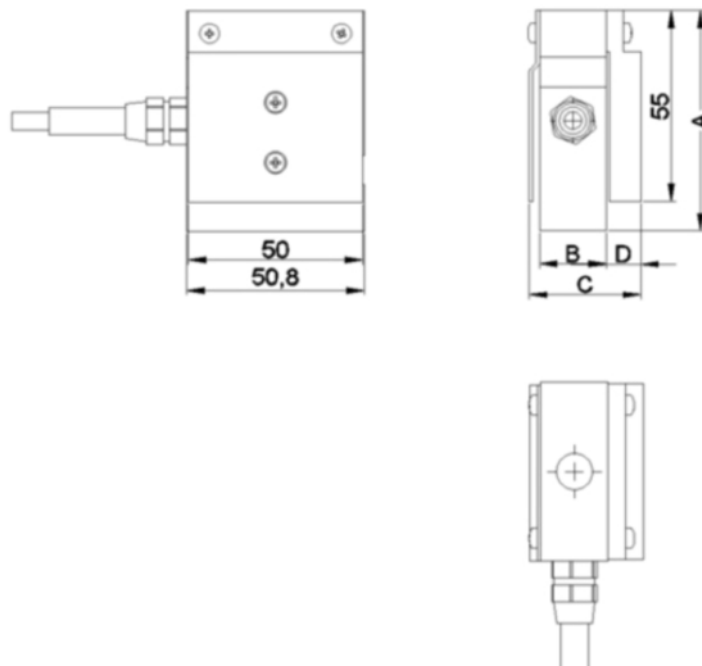
Series KM1402 / KT1402

- 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)



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

Series	Connection	Capacity	Signal Version	Force Direction	Function	Accessories
KT1402	K	2 kN	2442	D	xxxx	External Amplifiers <ul style="list-style-type: none"> • EMA3-DMS / EMA3-2DMS • IPG-DMS / IPG-2DMS • SI-DMS • IMA2-DMS
Force transducer series K1402 with integrated amplifier, supply 24V, output signal 4-20mA, 2m cable, capacity 2KN, calibration in compression, with special function						
KM1402	K	200 N	0000	Z		Displays <ul style="list-style-type: none"> • DH28-DMS • Modig
Force transducer series K1402, without amplifier, 2m cable, capacity 200 N, calibration in tension						

The specifications and information in this datasheet cannot consider all special demands that are caused by the application. Because of this, they are no general description of the properties of the product.
2011 August 18. All specifications are subject to change without notice.