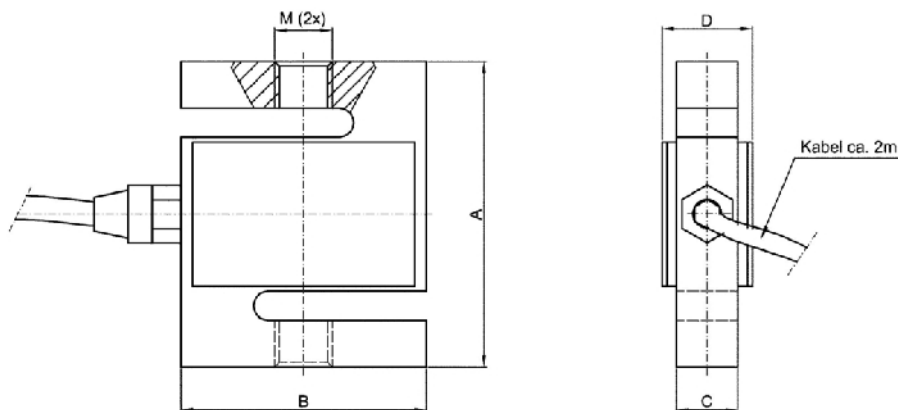


## Series KM1502 / KT1502

- Capacity from 0...5kN to 0...100kN
- Calibration either in tension or compression
- Optionally as loadcell only (KM1502) or with integrated amplifier (KT1502)
- Taring function (KT1502)
- RS232 / RS485 optional (KT1502)
- Special functions (KT1502)



### Dimensional Drawing



Capacity	A	B	C	D (KM)	D (KT)	M
5kN; 10kN	76,5	50,8	25,5	29	35,4	M12 x 1,75
20kN; 30kN	108	76,3	25,5	25,5	35,4	M18 x 1,5
50kN	108	76,2	31,8	31,8	---	M24 x 2
100kN	178	127	50,8	50,8	---	M30 x 2

# Series KM1502 / KT1502

Technical Data	KM1502	KT1502
Capacity (0 to ...)	5; 10; 20; 30; 50; 100 kN	5; 10; 20; 30; 50 kN
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	1 % 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	0,05 % F.S./10K	
Temp.Effect on Output	0,05 % 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	Steel

Ambient Conditions	KM1502	KT1502
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	KM1502	KT1502
Input Impedance	385 ± 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 KM1502 / KT1502

## 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
KT1502	K	10 kN	2442	D	xxxx	<b>External Amplifiers</b> <ul style="list-style-type: none"> <li>• EMA3-DMS / EMA3-2DMS</li> <li>• IPG-DMS / IPG-2DMS</li> <li>• SI-DMS</li> <li>• IMA2-DMS</li> </ul>
Force transducer series K1502 with integrated amplifier, supply 24V, output signal 4-20mA, 2m cable, capacity 10KN, calibration in compression , with special function						
KM1502	K	5 kN	0000	Z		<b>Displays</b> <ul style="list-style-type: none"> <li>• DH28-DMS</li> <li>• Modig</li> </ul>
Force transducer series K1502, without amplifier , 2m cable, capacity 5KN, 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 19. All specifications are subject to change without notice.