

U10M

Force Transducer



Special features

- Precise and robust tensile/compressive force transducer for static and dynamic measurement tasks
- High lateral force and bending moment stability, the effect of the bending moment is electrically compensated
- For forces up to 2.5 MN
- The numerous possible configurations (TEDS, double bridge, various electrical connections, etc.), mean that it can be flexibly adapted to many measurement tasks
- Made of rust-resistant materials, degree of protection IP68 on request
- High fundamental frequency - ideal for measuring fast processes

Nominal (rated) force:	F_{nom}	kN	1.25	2.5	5	12.5	25	50	125	250	500	
		MN										1.25
Accuracy												
Accuracy class			0.02		0.03		0.04		0.05			
Relative reproducibility and repeatability errors without rotation	b_{rg}	%	0.02									
Hysteresis error at 0.4 F_{nom} , rel. to the full scale value	$v_{0.4}$	%	0.02		0.03		0.04		0.05			
Linearity deviation	d_{lin}	%	0.02		0.025		0.035		0.05			
Rel. zero point return	v_{w0}	%	0.008									
Relative creep	$d_{cr, F+E}$	%	0.02									
Effect of the bending moment at 10% F_{nom} * 10mm	d_{Mb}	%	0.01									
Effect of lateral forces (lateral force = 10% of F_{nom})	d_Q	%	0.01									
Temperature coefficient of the rated output	TC_S	% / 10 K	0.015									
Temperature coefficient of zero signal	TC_0	% / 10 K	0.015									