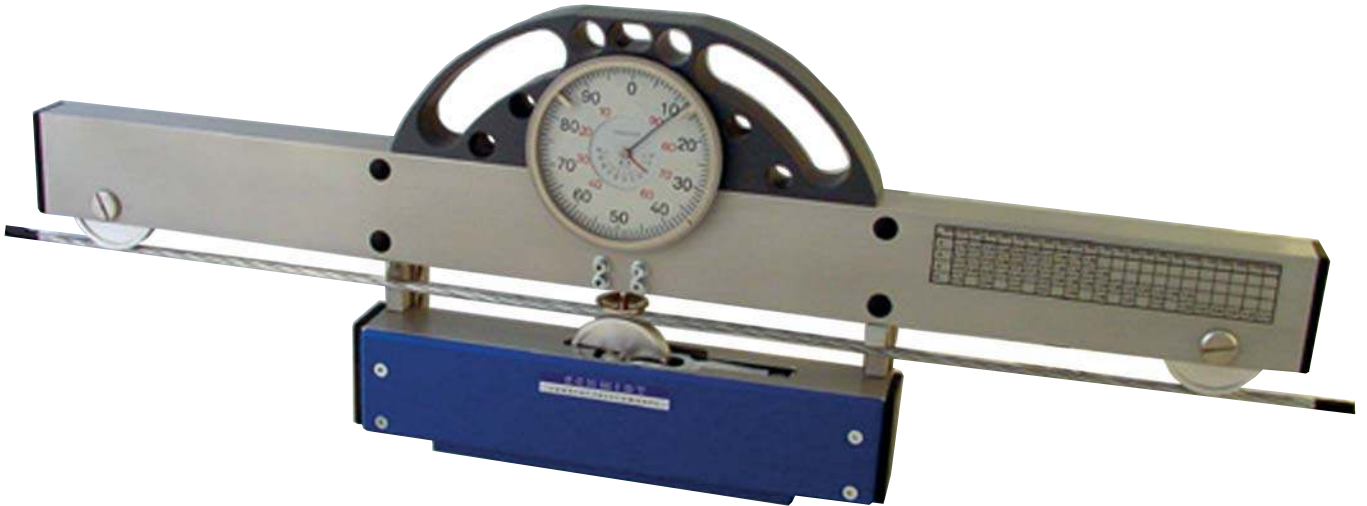


Series SZM

Measuring range 200 - 1500 daN

Wire rope tension meter to determine the tension of overhead lines, tensioning ropes, contact wires, aerials, etc. up to max. 12 mm Ø.

This instrument is used for the control and comparison measurement of pretensioned ropes.



Measuring Principle:

Operation is based on precisely measuring the cable deflection, caused by the application of a force mid-way between two U-grooved pulley supports. Cable tensions are then determined by noting the reading on a precision dial indicator that measures the deflection. The measuring result has to be converted from mm Ø to the corresponding force in daN with the help of a conversion chart.

Type	Measuring Range	Distance of the Rollers	Rope Diameter
SZM-600	200-1500 daN	600 mm	4-12 mm

Sample of a conversion chart for SCHMIDT standard ropes

	daN	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1100	1200	1300	1400	1500
Ø																							
5	—	4,79	3,92	3,32	2,86	2,54	2,32	2,07	1,94	1,76	1,66												
6	—	5,16	4,15	3,52	2,94	2,64	2,37	2,13	1,85	1,79	1,65	1,56											
8	—	4,57	3,82	3,22	2,76	2,44	2,17	2,02	1,80	1,66	1,53	1,44	1,36	1,27	1,20	1,14	1,08	1,04					
10	—	4,75		3,94		2,47		2,01		1,65		1,44		1,27		1,12		1,04	0,97	0,94	0,87	0,80	0,74

Conversion sample:

Rope diameter = 6 mm — measured value = 1,85 — Tension according to conversion table = 550 daN

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