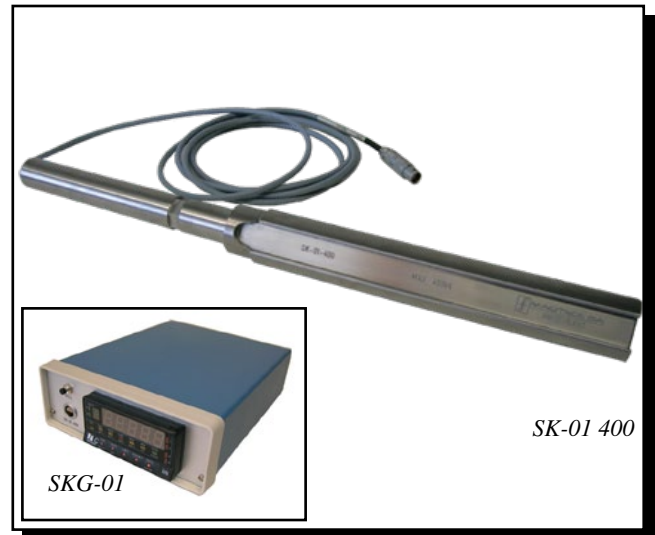




SK-01 Strain gauge force transducer

FEATURES

- Nominal force : 300 kN and 400 kN
(other nominal force available on request)
- Accuracy class : 3%
- Stainless steel
- Temperature compensated
- Optional amplifier display (SKG-01)
- Protection class : IP 66
- Mechanical adaptation for different diameters



DESCRIPTION

The Magtrol SK-01 Force Transducer, based on strain gauge technology, is ideal for the control of ropes, brake clamps and similar devices. It measures the clamping force, independent of the clamp, on the longitudinal axis of the transducer.

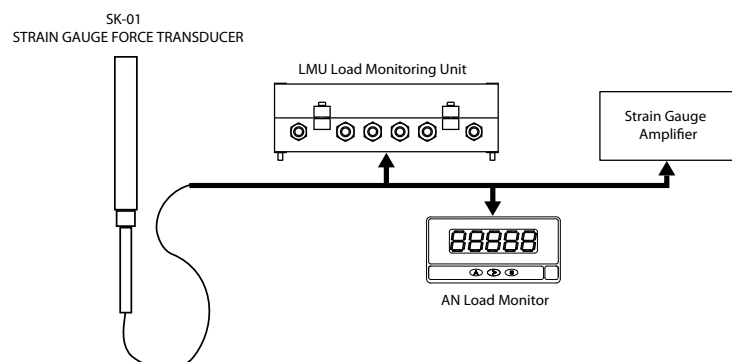
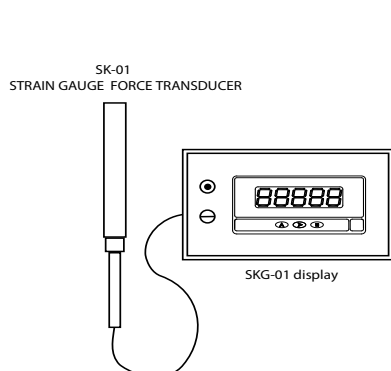
APPLICATIONS

The SK-01 is available in two different ranges. One for ropes of a diameter 28 to 47 mm for forces up to 300 kN and the second of a diameter 48 to 92 mm for forces up to 400 kN.

When connected to a SKG-01 Digital Amplifier, the SK-01 is ideally suited for measuring the clamping force on lifts, ski-lifts and similar applications

The capability of this device was tested by Swiss Federal Laboratories for Materials Testing and Research, see "Prüfbericht Nr. 169166 from 16 July 1997".

SYSTEM CONFIGURATION



TECHNICAL RATINGS

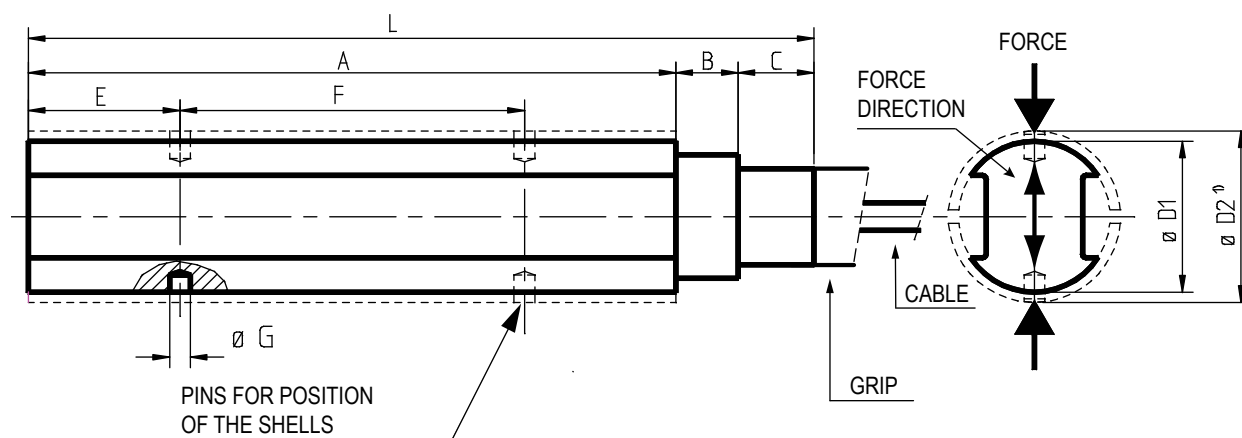
SK-01		
MECHANICAL CHARACTERISTICS		
Nominal load	300 kN	400 kN
Accuracy class	3%	
Admissible overload	120%	
Overload Limit	150%	
ELECTRICAL CHARACTERISTICS		
Nominal sensitivity	0.7 mV/V	
Nominal input resistance	3500 Ω	
Nominal output resistance	3500 Ω	
Supply voltage (max.).	20V	
ENVIRONMENTAL CHARACTERESTICS		
Nominal temperature	0°C to 40°C	
Operating temperature	-10°C to 60°C	
Temperature coefficient of signal zero per 10 K	<= ± 0.2 %	
Protection	IP66	
CONNECTION CABLE		
Cable length (*)	3 m	

(*) Shielded connection cable 3 m long. The shielding is not attached to the transducer body.

DIMENSIONS

PIN CONNECTIONS

Pin	Color Code
+ supply	brown
- supply	white
+ signal	yellow
- signal	green

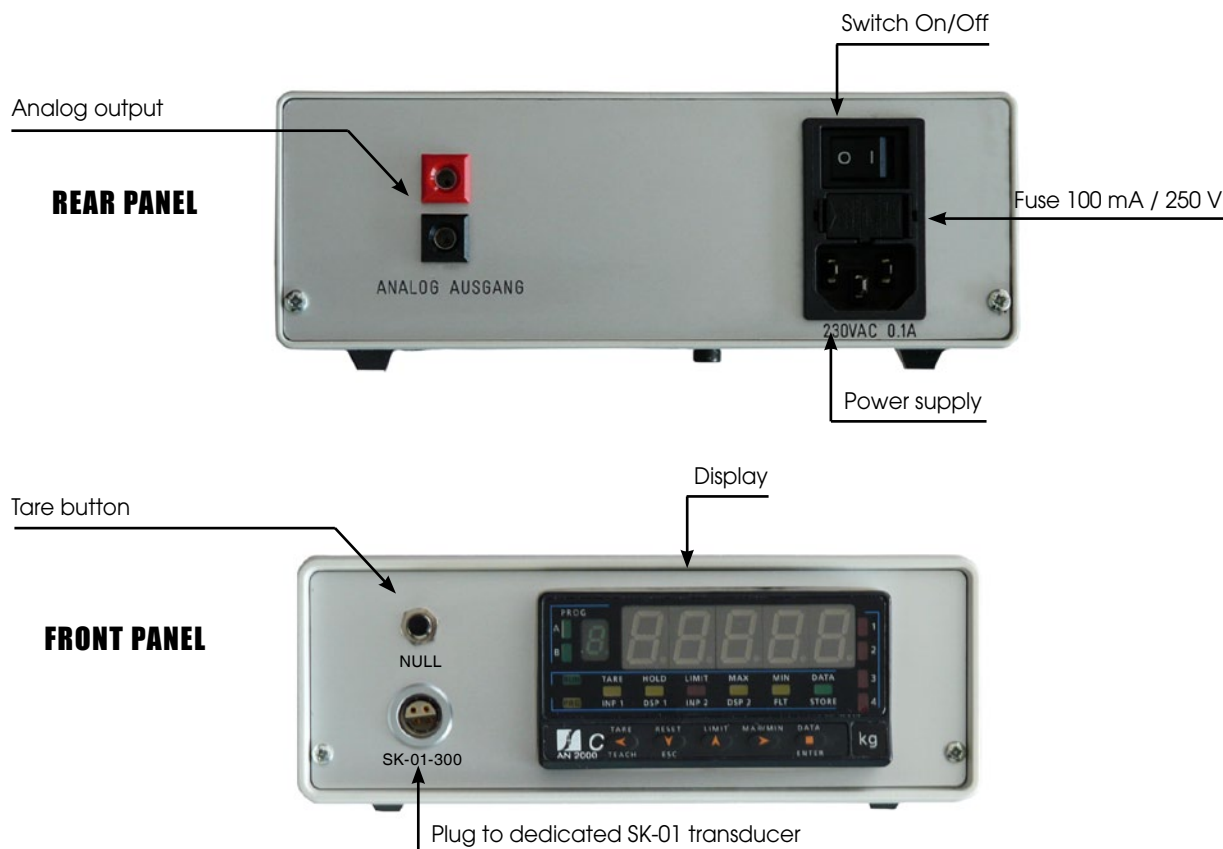


REF. / DIMENSION (mm)	A	B	C	$\varnothing D1$	$\varnothing D2$	E	F	L	$\varnothing G$
SK-01-300	250	22	28	19.9	from 28 to 47	50 $\pm$ 0.3	150 $\pm$ 0.1	300	4.1
SK-01-400	250	22	28	39.9	from 48 to 92	50 $\pm$ 0.3	150 $\pm$ 0.1	300	6.1

ACCESSORIES : SKG-01

MEASUREMENT CHARACTERISTICS	
Range	300 kN or 400 kN according to type
Accuracy	$\pm 0,1\% + 2$ count
Temperature Coefficient	100 ppm/°C
ELECTRICAL CHARACTERISTICS	
Voltage requirements	115/230 VAC 50/60 Hz $\pm 10\%$
Transducer voltage	10V DC
INPUTS AND OUTPUTS	
Maximum value input	± 300 mV
Analog output	1V for 100 kN

ENVIRONMENT		
Operating Temperature	- 10°C to +60°C	
Storage temperature	- 25°C to +80°C	
Relative Humidity	< 90 %	
Warm up time	5 min	
DIMENSIONS		
Width	251 mm	9.88 in
Height	71 mm	2.80 in
Depth	190 mm	7.49 in
Weight	1.66 kg	3.66 lb



Due to the continual development of our products, we reserve the right to modify specifications without forewarning.



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