

# Tensile Force Measuring Device

## *force* Indicator<sup>pro</sup>

### Applications

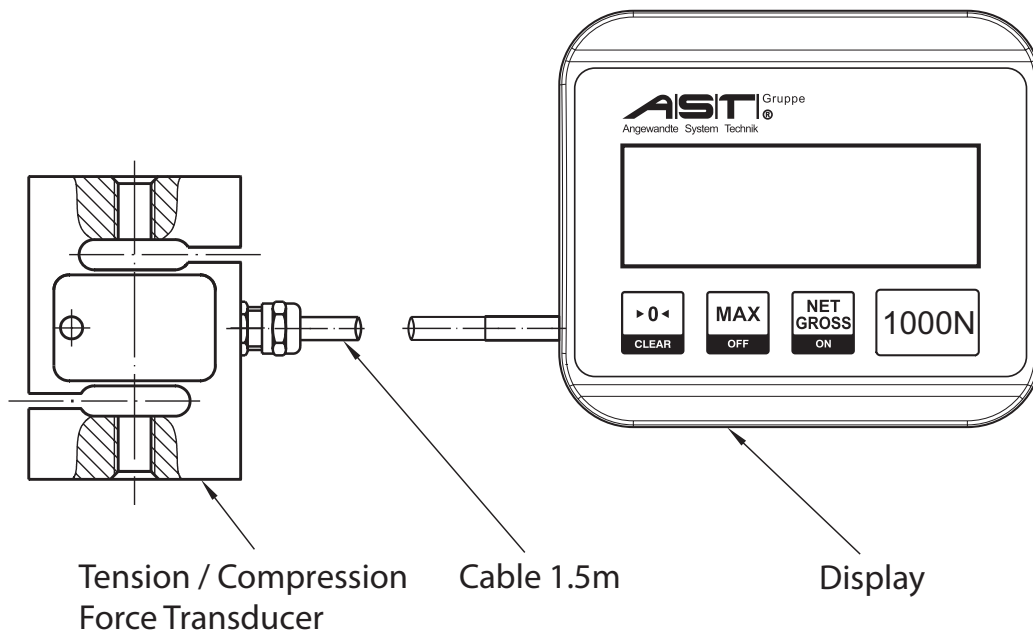
- Measurement of tensile and compressive forces
- Compilation and display of forces
- Inspection of machines and facilities

### Special features

- Easy to use
- rated force from 10N to 50kN
- Robust battery powered display
- Test certificate
- Display of maximum value for tensile forces



### Dimensions



Force Indicator	10-50N	100-500N	1kN-2kN	5kN	10kN	20kN	50kN
Force Transducer							
Height/Width/Depth	55/60/14	60/42/14	60/42/14	70/60/26	70/60/35	78/68/38	78/68/38
Screw thread	M6	M8	M8	M12	M12	M20x1,5	M24x2

## Specifications



Accuracy Class	% F <sub>nom</sub>	0.5
<b>Force Transducer</b>		KAP-S
Rated force (F <sub>nom</sub> )	N kN	10/ 20/ 50/ 100/ 200/ 500 1/ 2/ 5/ 10/ 20/ 50
Maximum operating force (F <sub>G</sub> )	% F <sub>nom</sub>	150
Breaking force (F <sub>B</sub> )	% F <sub>nom</sub>	> 300
Lateral force limit (F <sub>Q</sub> )	% F <sub>nom</sub>	10
Relative linearity error (d <sub>lin</sub> )	%	≤ 0.5
Relative reversibility error (v)	% / 10K	≤ 0.5
Temperature effect on zero signal (TK <sub>0</sub> )	% / 10K	≤ 0.5
Temperature effect on characteristic value (TK <sub>C</sub> )	% / 10K	≤ 0.5
Relative creep over 30 minutes (d <sub>cr,F+E</sub> )	%	≤ 0.5
Reference temperature (T <sub>ref</sub> )	°C	+23
Rated temperature range (B <sub>T, nom</sub> )	°C	-25 ... +60
Operating temperature range (B <sub>T, G</sub> )	°C	-30 ... +70
Storage temperature range (B <sub>T, S</sub> )	°C	-30 ... +70
Environmental protection (EN 60529)		IP 42
<b>Device</b>		Force Indicator Pro
Type size	mm	20.5
Display range		4-digit / 1000 pieces
Display mode		measured value, maximum value, scale unit, overload
Measuring rate (averaging)	1/s	16
Power supply	mm	4xAA (inside)
Dimensions (B x H x T)		118 x 102 x 35
Environmental protection (EN 60529)		IP 54

All data according to VDI/VDE/DKD 2638

## Type Code

Type Code	Description	Display increment
Force Indicator Pro 10N	Tension Force Measuring Device Force Indicator Pro 10N	± 0.01N
Force Indicator Pro 20N	Tension Force Measuring Device Force Indicator Pro 20N	± 0.02N
Force Indicator Pro 50N	Tension Force Measuring Device Force Indicator Pro 50N	± 0.05N
Force Indicator Pro 100N	Tension Force Measuring Device Force Indicator Pro 100N	± 0.1N
Force Indicator Pro 200N	Tension Force Measuring Device Force Indicator Pro 200N	± 0.2N
Force Indicator Pro 500N	Tension Force Measuring Device Force Indicator Pro 500N	± 0.5N
Force Indicator Pro 1kN	Tension Force Measuring Device Force Indicator Pro 1kN	± 1N
Force Indicator Pro 2kN	Tension Force Measuring Device Force Indicator Pro 2kN	± 2N
Force Indicator Pro 5kN	Tension Force Measuring Device Force Indicator Pro 5kN	± 5N
Force Indicator Pro 10kN	Tension Force Measuring Device Force Indicator Pro 10kN	± 10N
Force Indicator Pro 20kN	Tension Force Measuring Device Force Indicator Pro 20kN	± 20N
Force Indicator Pro 50kN	Tension Force Measuring Device Force Indicator Pro 50kN	± 50N

## Options

	Type Code	Description
Case	XKM 210	Storage Case
Calibration	XKW 212 XKW 222	Works calibration at 5 points for 10-50N - Tension Works calibration at 5 points for 100N-50kN - Tension
Load button	 XKM 029 XKM 040 XKM 019 XKM 043 XKM 044	10N bis 50N 100N bis 2kN 5kN und 10kN 20kN 50kN
Rod ends (male screw) with lock nut	 GKA 6 GKA 8 GKA 12 GKA 20 GKA 25	5N bis 50N 100N bis 2kN 5kN bis 10kN 20kN 50kN