



Measure



Improve



Service

## THICKNESS GAUGE



### Description

Thickness gauge to determine the thickness of leather, textiles, cardboard, felt, rubber, sheet metal, foil, plywood, plastic, etc.

Self closing thickness gage with high accuracy and resolution.

### Features

- Measuring by spring force
- Opening by lifting device (lever) - self closing thickness gauge

### Technical specifications

Resolution

0,01 mm

Measuring range

10 mm

Depth of jaw

50 mm

Scale diameter

54 mm

Measuring pressure

0,8 N

On request: 0,6 N/2 N

Feeler shape

A/B/C/D/E

Measuring principle

Self closing

Weight, net (gross)

300 g (350 g)

### Accessories

- Foot enables on-table operation
- Calibration Report for the dial gauge a specific test report including calibration report can be delivered

## Feelers

### Feeler A

For rubber, felt\*, soft materials\*, non wovens\*, etc.

Diameter 30 mm

\*meets no DIN EN ISO standards

Feeler A customized (available on request at extra charge)

For rubber, felt\*, soft materials\*, non wovens\*, etc.

diameter 31- 56 mm

\*meets no DIN EN ISO standards

### Feeler B

For rubber, felt\*, soft materials\*, non wovens\*, etc.

diameter 20 mm

\*meets no DIN EN ISO standard

### Feeler C

For soft leather, cardboard, paper, foils, etc.

diameter 10 mm

### Feeler D

For hard leather, plywood, fiberboard, etc.

diameter 10 mm

### Feeler E

For sheet metal, etc. diameter 5 mm

feelers

**feelers**



## Specifications

Calibration:	According to SCHMIDT factory procedure
Accuracy:	$\pm 1.5$ % full scale and $\pm 1$ digit % full scale or better Other calibration material $\pm 3$ % full scale or better
Overload protection:	100 % of tension range
Measuring principle:	Strain gauge bridge
Measuring roller deflection:	Max. 0.5 mm
Natural frequency:	Approx. 500 Hz, depending on tension range
Signal processing:	Analog
Temperature drift:	Less than $\pm 0.05$ % full scale/ $^{\circ}\text{C}$
Output signal:	Standard: 0 - 1 V DC (analog) impedance: $\geq 5 \text{ k}\Omega$ Option: 0 - 10 V DC (analog) Option: 4 - 20 mA DC (analog)
Damping (fg):	Standard: 30 Hz (other values on request)
Temperature range:	10 - 45 $^{\circ}\text{C}$
Air humidity:	85 % RH, max.
Power supply:	+15...24 V DC, max. 50 mA regulated
Housing material:	Aluminium
Weight, net (gross):	Up to model FS1-1000 approx. 250 g (approx. 350 g) models FS1-2000 up to FS1-10K approx. 280 g (approx. 380 g) models FS1-20K and FS1-50K approx. 330 g (approx. 500 g)