

MAGNESCALE

digital gauge



Series DS800S

Key-Features:

- Available measurement ranges 5; 12 mm
- Resolution up to 0,1 μm
- Accuracy up to 1,0 μm
- USB (2.0FS) interface - free evaluation software for download
- Protection class up to IP67
- Spring loaded and pneumatic versions available
- Resistant against water and oil
- Life cycle up to 30 million strokes

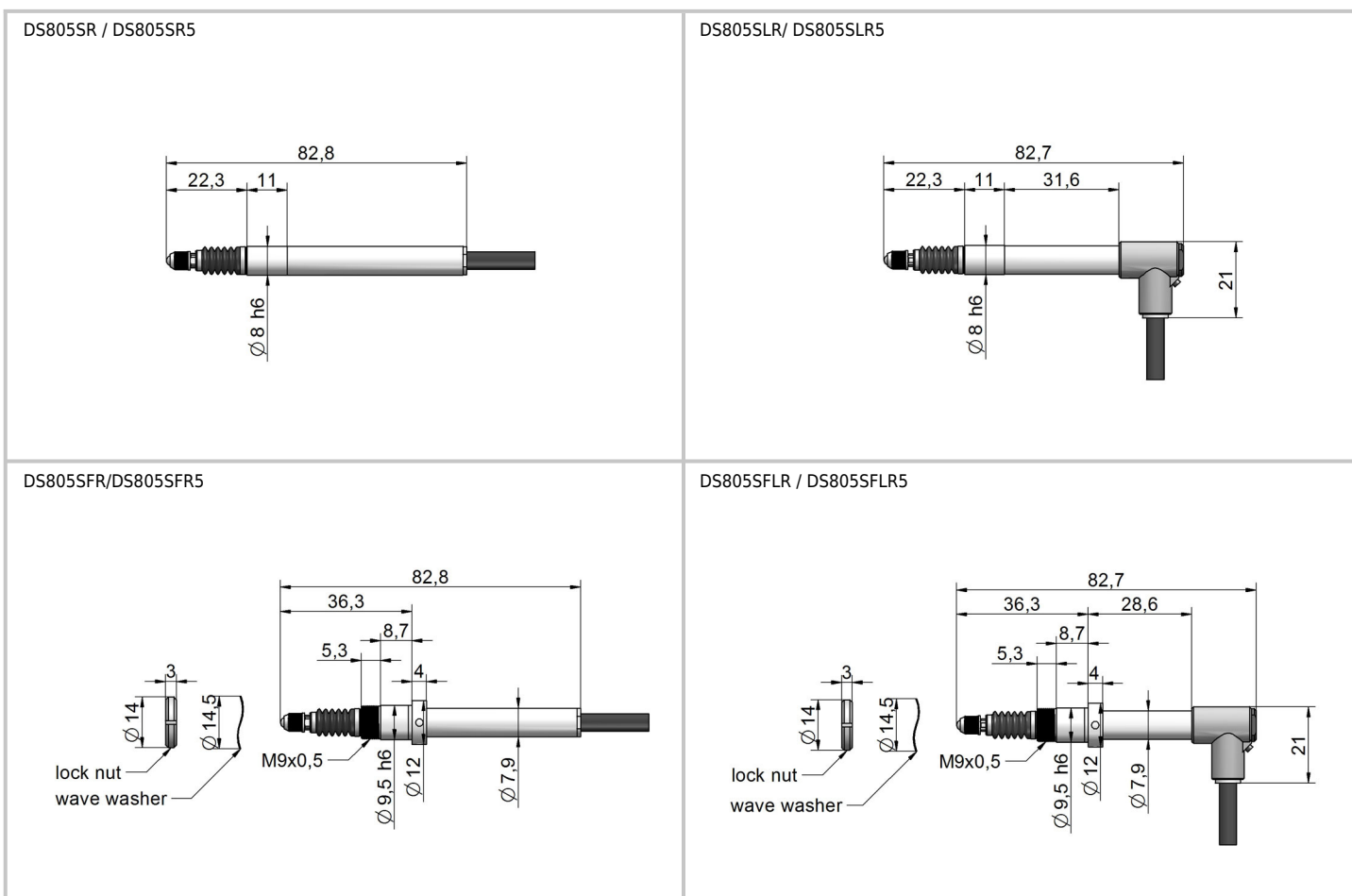
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DIGITAL GAUGE DS805 - Measurement range 5 mm

Model		DS805SR, DS805SFR, DS805SLR, DS805SFLR	DS805SR5, DS805SFR5, DS805SLR5, DS805SFLR5
Measurement range	[mm]	5	
Resolution	[μm]	0,1	0,5
Accuracy (20°C)	[μm]	1	1,5
Displacement speed max.	[m/min]	80*	
Rod principle		spring loaded, pneumatic	
Reference point		position at spindle movement of 1 mm	
Vibration	m/s ²	100 (20Hz to 2kHz)	
Impact resistance	m/s ²	1000 (11 ms)	
Operating temperature	[°C]	0...50 (no condensation)	
Storage temperature	[°C]	-20 to 60 (90% RH or less)	
Power supply	[VDC]	5 \pm 5%	
Power consumption	[mA]	120 max.	
Measuring force upward	[N]	0,35 \pm 0,25	
Measuring force horizontal	[N]	0,40 \pm 0,25	
Measuring force downward	[N]	0,45 \pm 0,25	
Protection class**		IP67	
Feeler		Carbide ball tip, mounting screw M2.5	
Cable length	[m]	Gauge \Leftrightarrow Interpolator: 2, Interpolator \Leftrightarrow USB: 0,5	
Weight	[g]	approx. 30	
Accessory		Instruction manual, tightening nut, clamp spanner, wave washer, hose elbow, spanner	
Communication interface		USB2.0FS	
Recommended system specification		CPU: Intel Core i3 or higher RAM: 1 GB or more; OS: Windows7, Windows10 (32 bit/64 bit)	

*Depending on the number of connected devices **not including cable and interpolation box



DIGITAL GAUGE DS812S - Measurement range 12 mm

Model		DS812SR, DS812SFR, DS812SLR, DS812SFLR, DS812SVR	DS812SR5, DS812SFR5, DS812SLR5, DS812FLR5, DS812SVR5
Measurement range	[mm]	12	
Resolution	[µm]	0,1	0,5
Accuracy (20°C)	[µm]	1	1,5
Displacement speed max.	[m/]	80*	
Rod principle		spring loaded, pneumatic	
Reference point		position at spindle movement of 1 mm	
Vibration	m/s ²	100 (20Hz to 2kHz)	
Impact resistance	m/s ²	1000 (11 ms)	
Operating temperature	[°C]	0...50 (no condensation)	
Storage temperature	[°C]	-20 to60 (90% RH or less)	
Power supply	[VDC]	5 ± 5%	
Power consumption	[mA]	120 max.	
Measuring force upward	[N]	0,4 ± 0,3** (DS812SVR / DS812SVR5: 0,6 ± 0,5***)	
Measuring force horizontal	[N]	0,5 ± 0,3** (DS812SVR / DS812SVR5: 0,7 ± 0,5***)	
Measuring force downward	[N]	0,6 ± 0,3** (DS812SVR / DS812SVR5: 0,8 ± 0,5***)	
Protection class****		IP67	
Mass	[g]	30	
Feeler		Carbide ball tip, mounting screw M2.5	
Weight	[m]	Gauge <=> Interpolator: 2, Interpolator <=> USB: 0,5	
Accessories		Instruction manual, tightening nut, clamp spanner, wave washer, hose elbow, spanner	
Communication interface		USB2.0FS	
Recommended system specification		CPU: Intel Core i3 or higher; RAM: 1 GB or more OS: Windows7, Windows10 (32 bit/64 bit)	

*Depending on the number of connected devices

**Except SVR/SVR5

*** When air pressure is 0,555 Mpa

****not including cable and interpolation box

<p>DS812SR / DS812SR5</p>	<p>DS812SFR / DS812SFR5</p>
<p>DS812SLR / DS812SLR5 / DS812SVR / DS812SVR5</p>	<p>DS812SFLR / DS812SFLR5</p>
<p>Flange adapter DZ812F</p>	

USB SOFTWARE

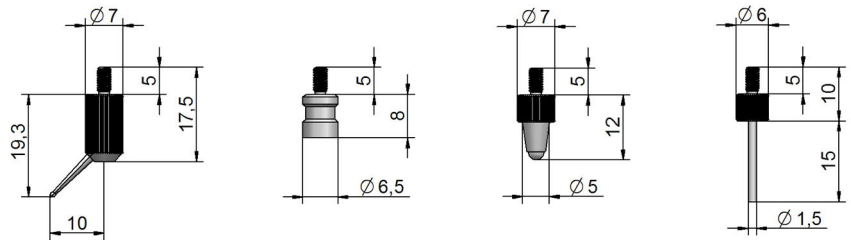
With a free basic software tool measuring values can be read out and saved in an excel or csv file.

- Up to 8 gauges can be connected
- Easy to operate and setup
- Comparator function
- Calibration (Reset) function
- Scaling function
- Various languages available
- Compatible with Windows 7/8/10 (XP possible)

ACCESSORIES

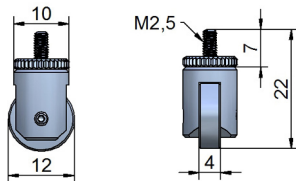
Feeler Set DZ5100:

1. Off-center contact point: $\varnothing 1,0$ mm steel ball
2. Flat carbide contact point $\varnothing 6,5$ mm
3. Plastic ball contact point $\varnothing 3,0$ mm, nylon ball
4. Pin contact point $\varnothing 1,5$ mm



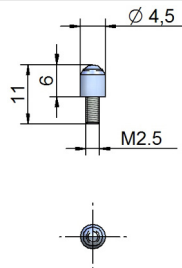
Roller DZ100:

Tolerance $< 3 \mu\text{m/turn}$



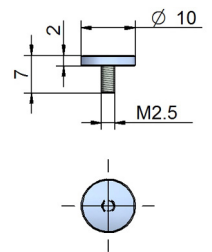
Tastkopf-01*

Tastkopf-01: steel (standard)
 Tastkopf-01-HM: cemented carbide
 Tastkopf-01-R: ruby
 Tastkopf-01-K: ceramics



Tastkopf-02

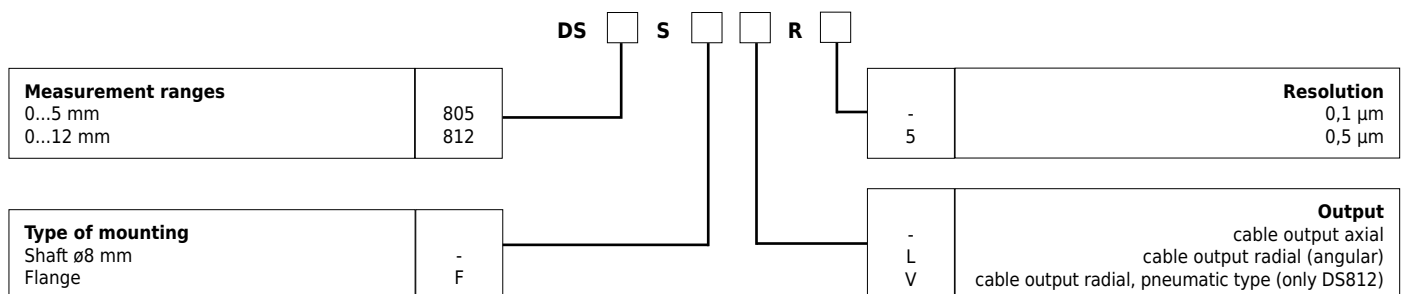
Tastkopf-02: steel
 Tastkopf-02-HM: cemented carbide



* Material of the feeler balls:

steel: for standard applications
 ruby: much harder and wear resistant than steel, non-conductive, for all applications except for measuring on aluminium and cast iron
 ceramics: comparable to ruby, best choice for measuring on aluminium and cast iron

ORDER CODE



ACCESSORIES

Accessories

DZ100	Roller
DZ5100	Feeler set
DZ812F	Flange adapter (only DS812S)

USB-extension cable

CE38-01	1 m, USB
CE38-02	2 m, USB
CE38-04	4 m, USB

Tastkopf-01	Standard (included in delivery)
Tastkopf-01-HM	Cemented carbide ball
Tastkopf-01-R	Ruby ball
Tastkopf-01-K	Ceramics ball
Tastkopf-02	Steel plate
Tastkopf-02-HM	Cemented carbide plate



Subject to change without prior notice.

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