

## Digital Gauge

## DF805/DF812 Series

Main Specifications								
Model name	DF805SR	DF805SFR	DF805SLR	DF805SFLR	DF812SR	DF812SFR	DF812SLR	DF812SFLR
Measuring range	5mm				12mm			
Resolution	0.1 $\mu$ m							
Accuracy (at 20°C/68°F)	1 $\mu$ m							
Measuring force (at 20°C/68°F)	Upward : 0.35 $\pm$ 0.25N Horizontal : 0.40 $\pm$ 0.25N Downward : 0.45 $\pm$ 0.25N				Upward : 0.4 $\pm$ 0.3N Horizontal : 0.5 $\pm$ 0.3N Downward : 0.6 $\pm$ 0.3N			
Maximum response speed	80m/min							
Reference point	at 1 $\pm$ 0.5 mm position of spindle movement							
Reference point response speed	80m/min							
Output	Dedicated serial communication protocol							
Spindle driving	Spring push							
Achieved number of strokes	60 million strokes (under specific test conditions defined by Magnescale Co., Ltd.)							
Protective structure	IP66	IP54 When a $\varnothing$ 4 mm tube is connected : IP67			IP66	IP54 When a $\varnothing$ 4 mm tube is connected : IP67		
Impact resistance	100m/s <sup>2</sup> (20-2000Hz)							
Vibration resistance	1000m/s <sup>2</sup> (11ms)							
Operating temperature	0-55°C							
Storage temperature	-20-60°C							
Power supply voltage	+10 to +30V DC including ripple (p-p) 10%							
Power consumption	1.2 W or less							
Mass	Approx. 30 g (not including cable parts and interpolation box)							
Probe part cable length	2m							
Output cable length	Max. 20 m (Use the optional CE34.)							
Feeler	Provided with a carbide ball tip Mount screw M2.5							
Accessories	Instruction Manual, 1 wrench, 1 hose elbow (only DF8**S*L**) Tightening nut, clamp wrench, wave washer, stop pin (1 each) (only DF8**S*F**)							