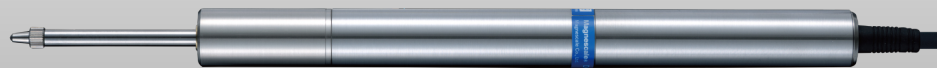


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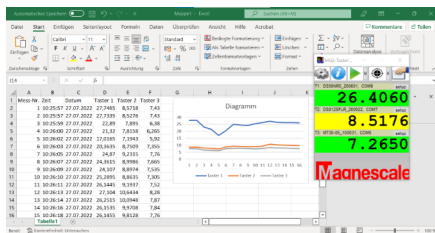
SPEED X PRECISION

USB DIGITAL GAUGE

DS800S series
DS10/25/50/100 series
DT series + MT30



MGSE USB SOFTWARE

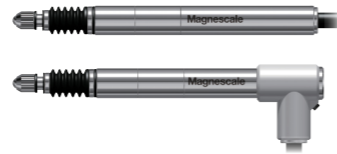
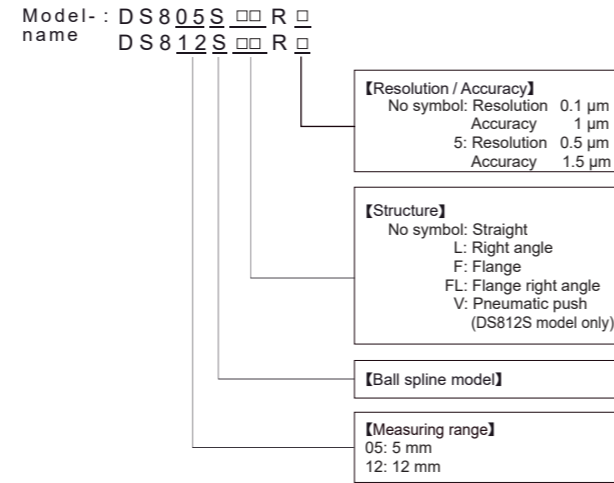


MEASURE VIEWER LIGHT



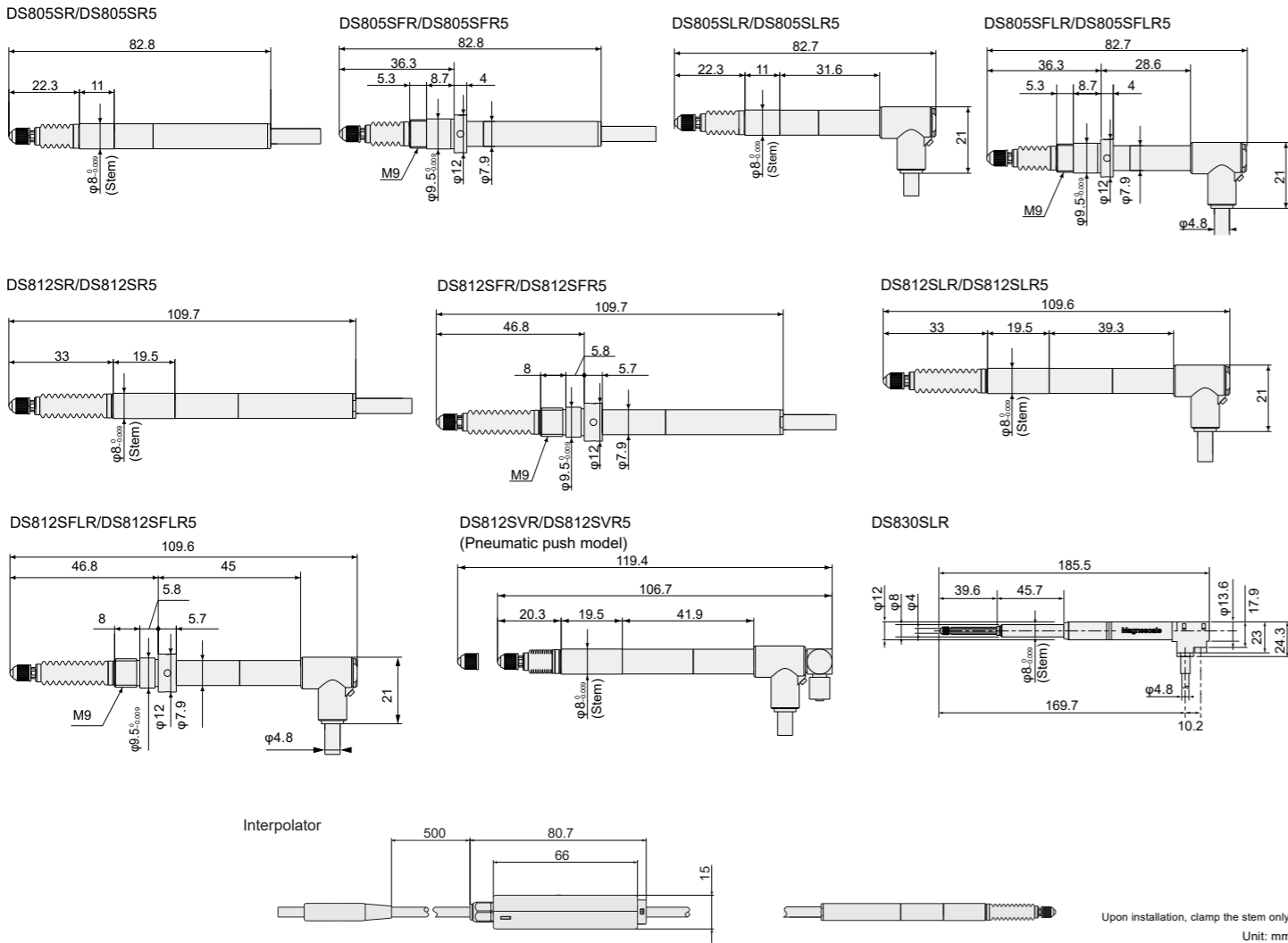
Magnescale Co., Ltd.

Model name	DS805S□□R / DS812S□□R	DS805S□□R5 / DS812S□□R5	DS830SLR
Measuring range	DS805S: 5 mm	DS812S: 12 mm	30 mm
Maximum resolution	0.1 μm	0.5 μm	0.1 μm
Accuracy (at 20 °C)	1 μm	1.5 μm	1.5 μm
Measuring force (at 20 °C)	Upward	DS805S: 0.35 ± 0.25 N DS812S: 0.40 ± 0.30 N*1 DS812SVR/DS812SVR5: 0.60 ± 0.50 N*2	0.50 ± 0.35 N
	Horizontal	DS805S: 0.40 ± 0.25 N DS812S: 0.50 ± 0.30 N*1 DS812SVR/DS812SVR5: 0.70 ± 0.50 N*2	0.60 ± 0.35 N
	Downward	DS805S: 0.45 ± 0.25 N DS812S: 0.60 ± 0.30 N*1 DS812SVR/DS812SVR5: 0.80 ± 0.50 N*2	0.70 ± 0.35 N
Reference point	Position at spindle movement of 1 mm		
Protection grade (cable and interpolator box not included)	Straight model: IP67 Right-angle model: IP64 (IP67*3)		IP53/IP67*4
Vibration resistance	100 m/s ² (20 Hz to 2 kHz)		
Impact resistance	1,000 m ² (11 ms)		
Operating temperature	0 to 50 °C (no condensation)		
Storage temperature	-20 to 60 °C (90% RH or less)		
Power supply	5V DC ± 5 %		
Power consumption	120 mA max.		
Mass (Probe)	Approximately 30 g	Approximately 70 g	
Cable length	Gauge ⇒ Interpolator: 2 m Interpolator ⇒ USB: 0.5 m		
Feeler	Carbide ball tip with M2.5 thread	Steel ball tip with M2.5 thread	Carbide ball tip with M2.5 thread
Accessory	Instruction manual, tightening nut, clamp spanner, wave washer, hose elbow, spanner		Instruction manual, spanner
Communication interface	USB2.0FS		
Recommended system specifications	CPU: Intel Core i3 or higher RAM: 1 GB or more OS: Windows 10 (32 bit/64 bit)		

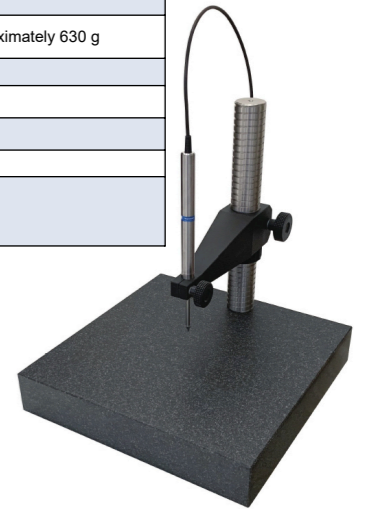


*1 Except SVR/SVR5 *2 When air pressure is 0.055Mpa
*3 When Ø4 mm tube is connected
*4 When bellow set (optional accessory) is mounted and Ø4 mm tube is connected

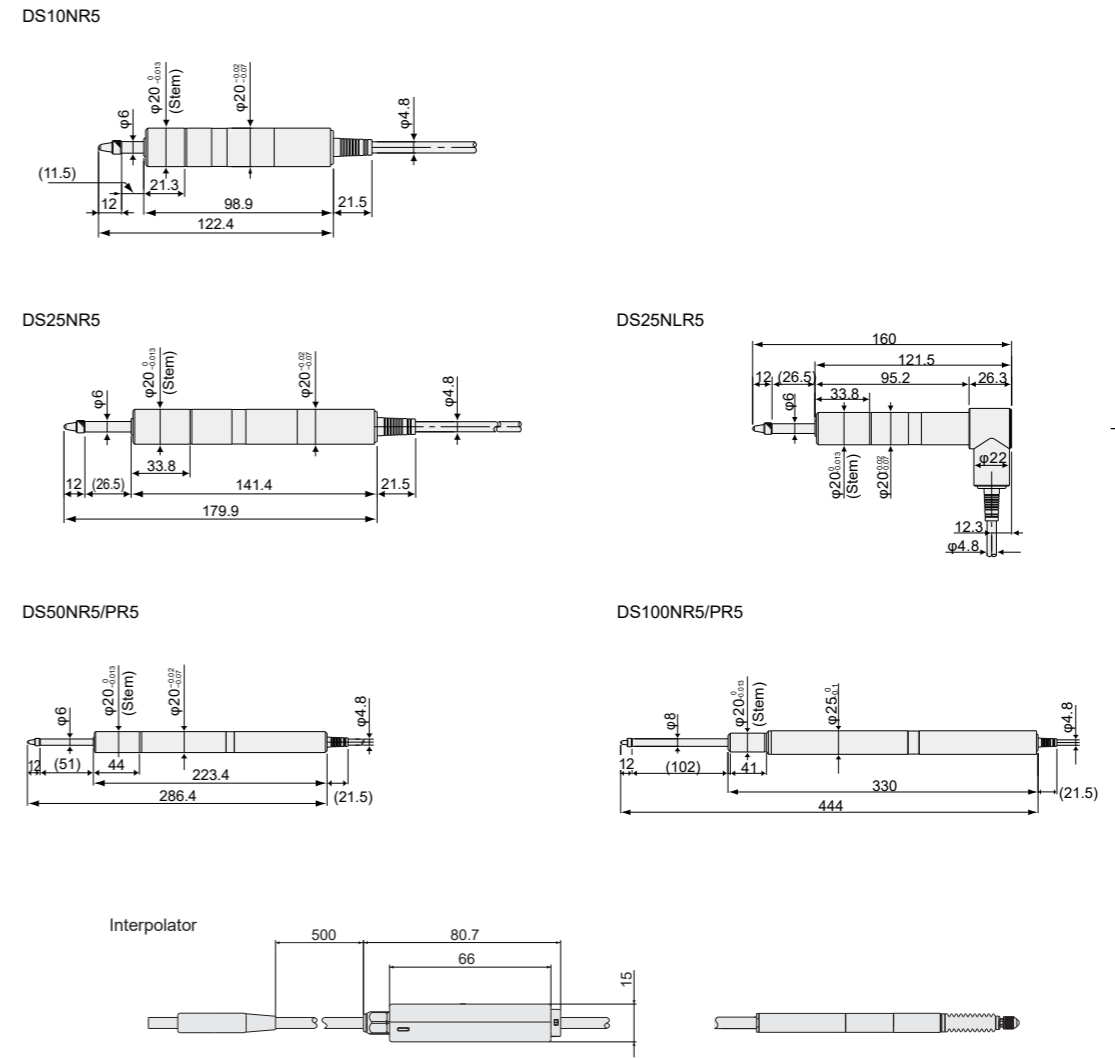
Dimensions



Model name	DS10NR5	DS25NR5	DS25NLR5	DS50NR5	DS50PR5	DS100NR5	DS100PR5
Measuring range	10 mm	25 mm		50 mm		100 mm	
Maximum resolution	0.5 μm						
Accuracy (at 20 °C)	3 μm		4 μm		5 μm		
Measuring force (at 20 °C)	Upward	0.30 ± 0.25 N	0.40 ± 0.30 N	-	6.20 N or less	-	9.30 N or less
	Horizontal	0.60 ± 0.30 N	0.70 ± 0.35 N	0.90 ± 0.40 N		1.80 ± 0.65 N	
	Downward	0.80 ± 0.35 N	1.00 ± 0.40 N	1.30 ± 0.50 N		2.70 ± 0.55 N	
Reference point	Position at spindle movement of 1 mm						
Protection grade (cable and interpolator box not included)	IP50				IP64	IP50	IP64
Vibration resistance	150 m/s ² (10 Hz to 2 kHz)						
Impact resistance	1,500 m ² (11 ms)						
Operating temperature	0 to 50 °C (no condensation)						
Storage temperature	-20 to 60 °C (90 % RH or less)						
Power supply	5V DC ± 5 %						
Power consumption	120 mA max.						
Mass (Probe)	Approximately 230 g	Approximately 300 g		Approximately 360 g		Approximately 630 g	
Cable length	Gauge ⇒ Interpolator: 2 m Interpolator ⇒ USB: 0.5 m						
Feeler	Carbide ball tip with M2.5 thread						
Accessory	Instruction manual						
Communication interface	USB2.0FS						
Recommended system specifications	CPU: Intel Core i3 or higher RAM: 1GB or more OS: Windows 10 (32 bit/64 bit)						



Dimensions



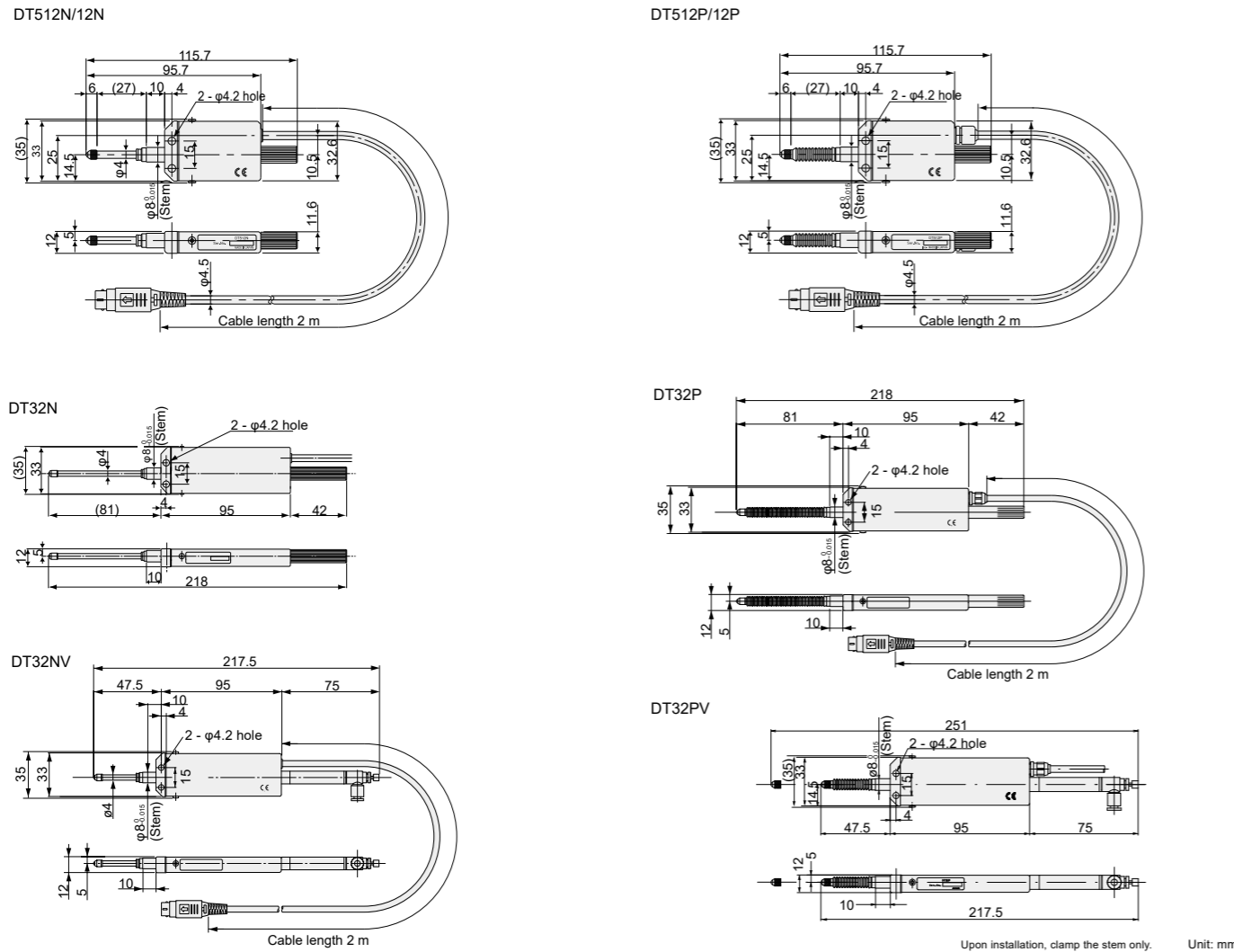
Model name	DT512N	DT512P	DT12N	DT12P	DT32N	DT32NV	DT32P	DT32PV	
Measuring range	12 mm				32 mm				
Maximum resolution	1 µm				5 µm				
Accuracy (at 20 °C)	6 µm				10 µm				
Measuring force (at 20 °C)	Upward	0.70 ± 0.50 N	1.70 N or less	0.70 ± 0.50 N	1.70 N or less	1.10 ± 0.80 N		2.90 N or less	9.00 N or less
	Horizontal	0.80 ± 0.50 N		0.80 ± 0.50 N		1.30 ± 0.80 N			
	Downward	0.90 ± 0.50 N		0.90 ± 0.50 N		1.50 ± 0.80 N			
Maximum response speed	Depending on unit to be connected								
Reference point	None								
Spindle drive system	Spring push-out				Pneumatic push		Spring push-out		Pneumatic push
Protection grade (connector not included)	-	IP64 or equivalent	-	IP64 or equivalent	-	IP64 or equivalent			
Operating temperature	0 to 50 °C								
Storage temperature	-10 to 60 °C								
Power supply	5 V DC ± 5 %*1								
Power consumption	120 mA max.*1								
Mass (Probe)	Approximately 75 g	Approximately 80 g	Approximately 75 g	Approximately 80 g	Approximately 120 g	Approximately 140 g	Approximately 120 g	Approximately 140 g	
Cable length	2 m								
Feeler	Steel ball tip with M2.5 thread								
Accessory	Instruction manual								

*1 When connected to USB with MT30

The DT series can be directly connected to USB with MT30 adapter



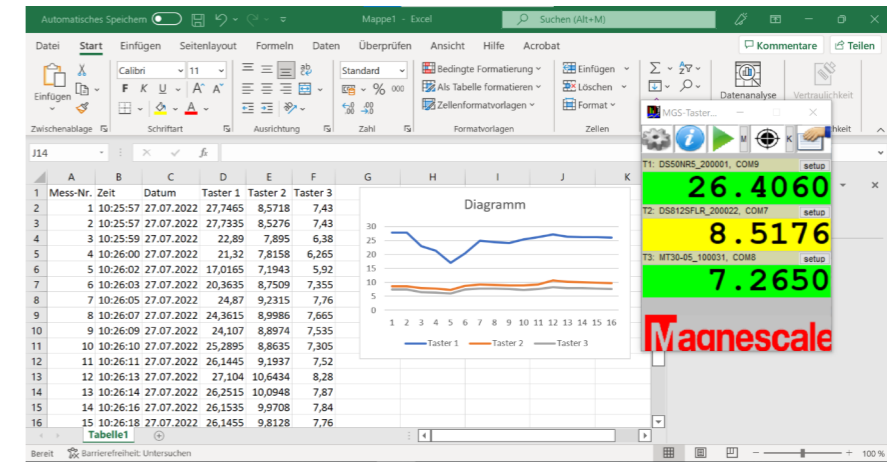
Dimensions



Easy to use MGSE USB software

- Up to 8 gauges can be connected
- Actual measurement values
- Calibration function
- Preset
- Scaling function
- Threshold and warning threshold displayed in different colours (green, yellow, red)
- Trigger of measurement possible with external switch (e.g. foot switch, CNC)
- Measurement values can be saved in Excel or CSV format
- Compatible with Windows XP, 7, 8 and 10

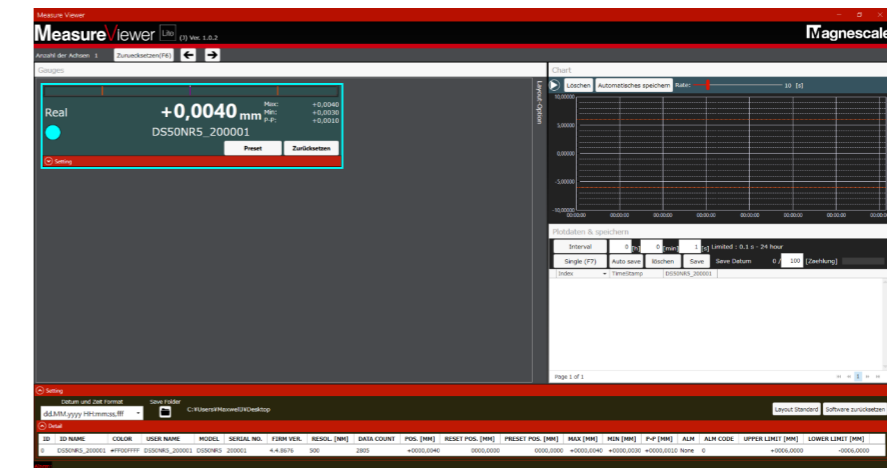
Free of cost



MeasureViewer Light

- Up to 16 gauges can be connected
- Actual measurement values
- Counting direction can be changed
- Reset, preset
- 2 steps of threshold and warning threshold displayed in different colours (blue, red)
- Measurement values can be saved in CSV format
- Japanese, English and German are available
- Recommended operating environment of Windows 10

Free of cost



Several software driver compatible: Labview, C++, C#, Visual Basic

Magnescale

SPEED X PRECISION

 To use this product safely, please read the instruction manual carefully and thoroughly prior to usage.

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