

## DIGITAL PASSAMETER DS-2

Resolution 0.1  $\mu\text{m}$

For high-precision measurement of ultra-fine parts such as drawn wire.

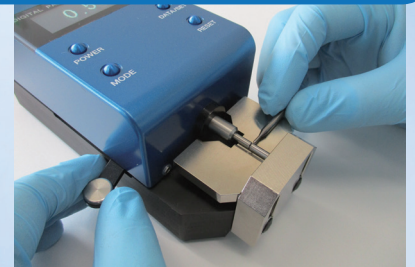


## DIGITAL PASSAMETER DS-1

Resolution 1  $\mu\text{m}$

For precise measurement of part thickness and tool outer diameter.

Simple! High-accuracy measurement



*Desktop digital display indicator that anyone can measure stably and with high accuracy by lever operation.*

## What DS-1 • DS-2 can do.

- DS-1 can accurately measure part thickness and tool outer diameter with a resolution of 1  $\mu\text{m}$ .
- DS-2 can precisely measure ultra-fine components such as wires with a resolution of 0.1  $\mu\text{m}$ .
- Adoption of crossed roller guides enables long life with light and smooth movement, high rigidity.
- Measuring force is constant over the full stroke.
- Optimum measuring force can be set for a workpiece.
- Optional lineup of measuring probe shapes and measuring terminal boards suitable for workpieces.
- Data communication via USB and bus-powered operation.
- Supporting a mobile battery and usable in locations where there is no power outlet.

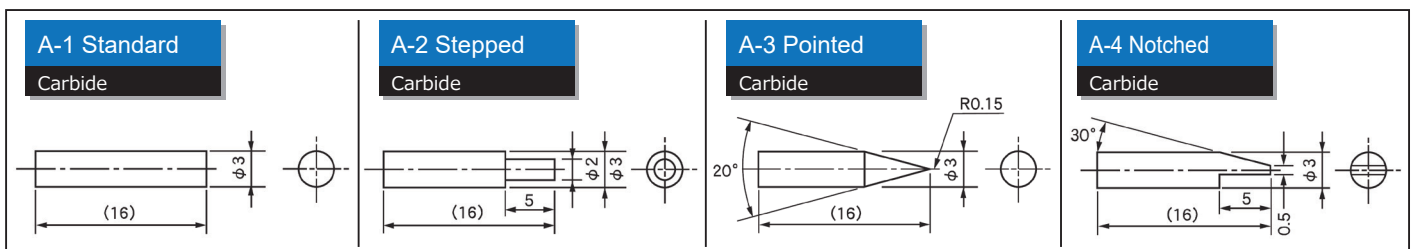
Equipped with USB



Mobile battery powered



■Anvil type, form or dimensions (mm)



※For DS-2, A-1 and A-4 shape are available.

## ■ General specifications

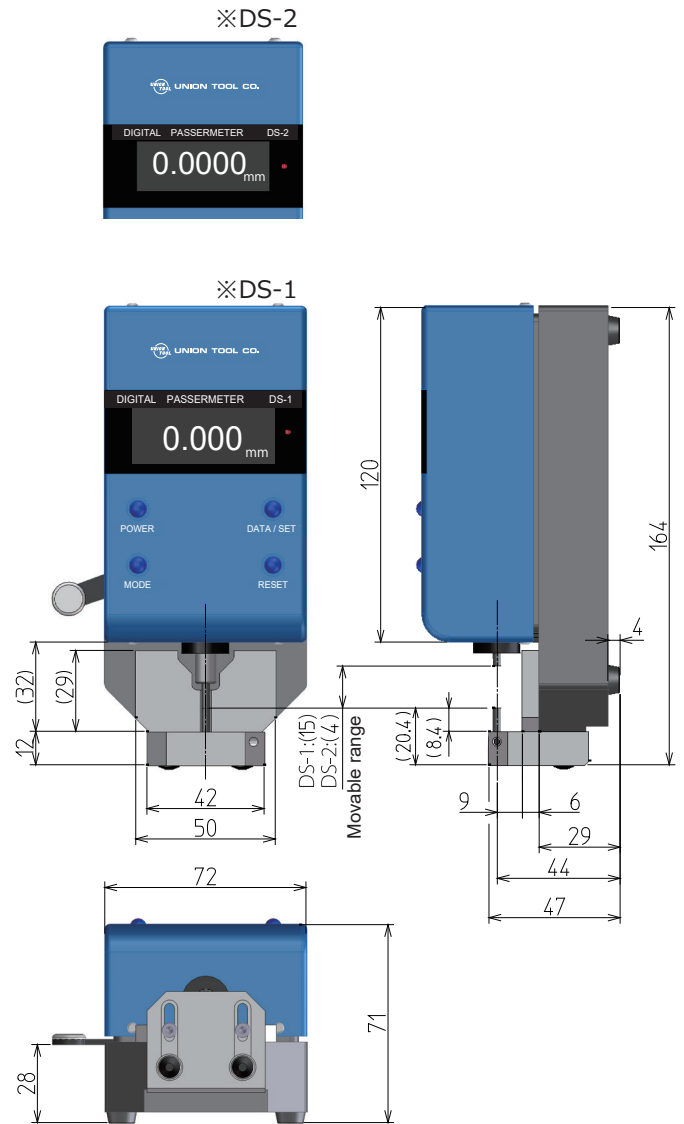
Item	Specifications	
Name	Digital Passameter	
Model	DS-1	DS-2
Measurement target	Precision machined parts such as PCB drills, probe pins, crystal pieces	
Measuring range	0~15 mm	0~4 mm
Resolution	1 $\mu$ m	0.1 $\mu$ m
Measuring precision(20°C)*1	2 $\mu$ m	0.2 $\mu$ m
Maximum Response Speed*2	2 m/s	
Measuring Force	0.15, 0.29 (factory default), 0.49, 0.98 N Can be changed by changing the repositioning of springs	
Probe	$\phi$ 3.0mm carbide	
Interface	USB 2.0 Type-C receptacle (shared use of power and data communication)	
Temperature and humidity range	Operating temperature and humidity: 5 to 35°C, 45 to 85% Storage temperature: -20 to 60°C (no condensation)	
Dimensions	W72 × D164 × H71 mm (Not including protrusions)	
Mass	1.7 kg	
Power*3	+5VDC (USB power supply) At startup: approx. 170 mA, At measurement: approx. 120 mA In standby mode: approx. 100 mA	

\*1.Excluding quantization error.

\*2.Maximum electrical response speed.

\*3.In addition to the included AC adapter, a commercially available USB-AC adapter or mobile battery can be used to supply power.

## ■ Dimensions Plan



## ■ Examples of the DS series in use

<p>For dimensional inspection of machined parts, pin gauges, etc.</p>	<p>For measurement of thin lines, such as optical fiber or other fibers</p>	<p>For measurement of steel balls</p>	<p>For measurement of a stepped component, such as a test pin</p>
<p>For measuring drill outer diameter</p> <p>DS-1/P1 (Drill holding plate for diameter of drillbit with ring)</p>	<p>For measuring drill total length</p> <p>DS-1/P2 (Drill holding plate for overall length)</p>	<p>For measuring drill ring depth</p> <p>DS-1/P3 (Drill holding plate for ring depth)</p>	<p>For measurement of places where the standard probe cannot be inserted, such as the depth of a groove</p> <p>A-3 Pointed used</p>

Please note the above specifications may be changed without prior notice due to modification, etc.