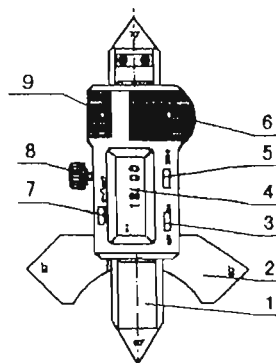


DIGITAL WELDING GAUGE

OPERATING INSTRUCTION

1. Bar 2. Slider 3. On/Off Button
 4. Display Screen(LCD)
 5. Zero Setting Button 6. Battery Cover
 7. Metric/Inch Conversion Button(mm/inch)
 8. Locking Screw 9. Output port



● TECHNICAL SPECIFICATIONS

Diagrammatic Sketch of Structure

Resolution:	0.01mm/0.0005"
Range:	0-20mm, 0-0.8"
Error:	$\pm 0.03\text{mm} / \pm 0.001"$
Operating Power:	One silver oxide battery, SR44, 1.55V
Working temperature:	0 °C ~ +40°C
Humidity:	$\leq 80\%$
Storage temperature:	-10°C ~ +60°C

● FUNCTION

1. Zero setting at any position.
2. Metric / Inch system conversion at any position.
3. The digital welding gage is equipped with an output port. Data can be input into a computer or a special printer via special connecting cable.

The working way of the interface: Synchronous serialization.

Data: Binary code, 24 bits. Each datum will be transferred twice. The cycle is 300ms (20ms in fast reading mode).

Transmitting time: 0.5ms.

Four wires (from left to right): Negative Power (-), Clock Pulse CP, Data D, Positive Power (+).

Pulse Range of Data: 0 Level $\leq 0.2\text{V}$, Level 1 $\geq 1.3\text{V}$.

Clock Pulse CP: 90KHz, effective for high electrical level.

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● OPERATION

Press the On/Off button to switch on the power. Press the mm/in button to set the unit system you need.

Set zero on a plane to measure plane weld seam according to the picture on the right; set zero on a 90° bevel to measure 90° bevel weld seam. Then press Zero button, the LCD will display "mm 0.00".

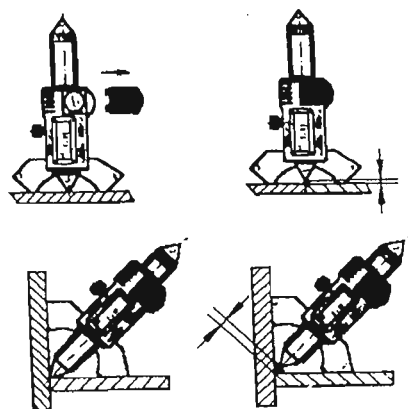
Put the weld seam between two measuring faces and move the scale till measuring faces and weld seam contact gently, then the value displayed is the height of weld seam.

● BATTERY REPLACEMENT

1. Turn to a direction as the arrow indicators in the picture on the right and remove the battery cover.
2. Put in a new battery with its positive side facing out and put on the battery cover.

● MAINTENANCE INSTRUCTIONS

1. The moving speed should not exceed 1.5m/s.
2. Being precision measuring instrument, it should be prevented from striking or falling to avoid losing precision when using it.
3. Keep the Digital Welding Gauge clean and dry, preventing liquid etc. going into it for fear of affecting normal operation.
4. Faces should be cleaned gently with anhydrous alcohol. Never use petrol, acetone and other organic solutions.
5. Never apply any electric pressure on any part of it and never use an electric pen for fear of damaging its chip.
6. Do not recharge, disassemble or short-circuit the battery when changing the battery.
7. Take out the battery and keep it separately from the Digital Welding Gauge if it will stay idle for a long time.
8. Do not disassemble the Digital Welding Gauge.



Diagrammatic Sketch of Measuring

● BRIEF ON MAINTENANCE

Troubles	Possible Causes	Solutions
Flashing digits	Low voltage	Replace the battery
No Display	1. Low voltage 2. Poor contact	1. Replace the battery 2. Adjust and clean the battery seat
Fixed digits	Accidental trouble in circuit	Take out the battery and put it back after one minute