

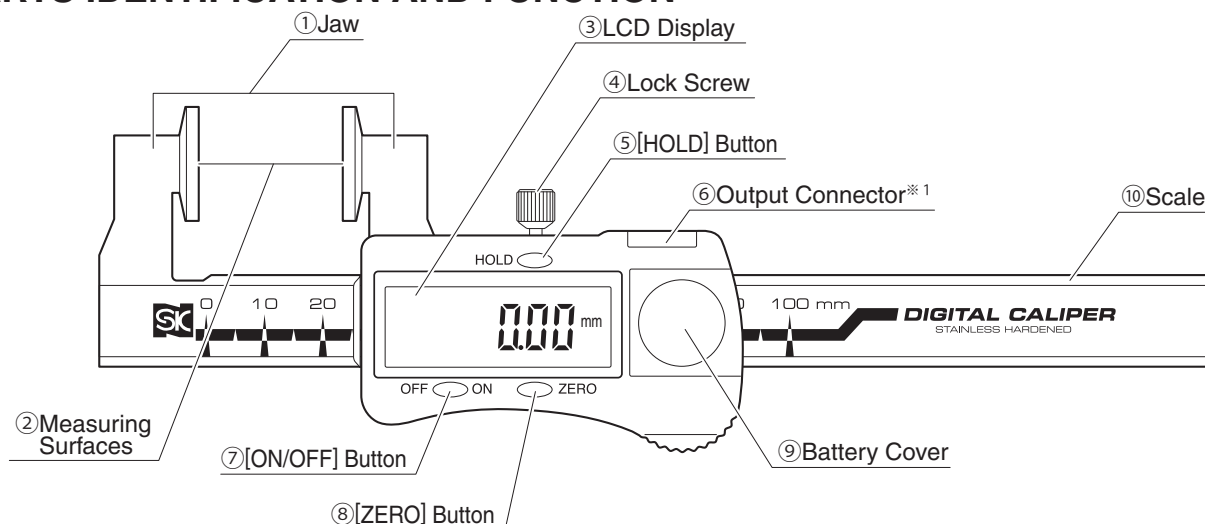
WIRE ROPE CALIPER

Thank you for purchasing the Wire Rope Calipers.

This product is designed for measuring wire rope diameter with precision and repeatability.

- For safe and proper use of this product, please read this instruction manual before use and follow the procedures described. Keep this manual with the calipers for future reference.
- Keep this manual with the instrument if transferred or leased to a third party.
- For inquiries about this product, please contact dealer or Niigata Seiki at the address listed on the following page.

■ PARTS IDENTIFICATION AND FUNCTION



- | | |
|--|---|
| ① Jaw.....For positioning on Object to be measured. | ⑥ Output Connector ^{※1} ..Connector external output. |
| ② Measuring Surfaces.....Surfaces for measuring Outside Dimension of object. | ⑦ [ON/OFF] Button.....For turning power ON / OFF. |
| ③ LCD Display.....Displays digital measurement. | ⑧ [ZERO] Button.....Resets display to 0.00mm. |
| ④ Lock Screw.....Tighten to Prevent the slide and display from moving. | ⑨ Battery Cover.....Cover for Silver Oxide SR44 Battery. |
| ⑤ [HOLD] Button.....Will Hold value on Display. | ⑩ Scale.....Supports LCD Display Unit. |
- ※ 1 : This feature not available.

SAFETY PRECAUTIONS

Please Observe

Always follow the proper operating procedures in order to prevent harm to yourself or others, and to prevent damage to property.



Denotes a prohibition
-You MUST NOT do



Denotes a requirement
-You MUST do



WARNING

Indicates risk of **personal injury** or **property damage** if not followed.



Read this manual and follow the instructions.

- Use of product other than as described in the manual may cause accident.



Use only for measuring.

- Use for any purpose other than measuring may cause damage or wear to the instrument. Improper use may also cause accident.



Handle with Care.

- Do not drop or subject instrument to excessive shock. Do not place under heavy objects. Improper handling may cause damage or poor accuracy.
- Do not scratch instrument.



Before use, make sure measuring surfaces and slide are clean of dirt and debris.

- Debris may cause damage to Display Unit or erroneous reading.



Use and store only in environment meeting the following conditions:

- Dry location protected from rain, water, and oils.
- Location that does not become hot.
- Location protected from use by children and unauthorized people.
- Use in places contrary to the above may cause damage to the product resulting in accident or injury.



Avoid using in locations with high electric fields, such as near fluorescent lights or switching power supplies.

- May cause damage to Display Unit or erroneous reading.



When Lock Screw is tight, do not slide the Display Unit.

- Will cause damage to Gauge.



Do not disassemble or modify.

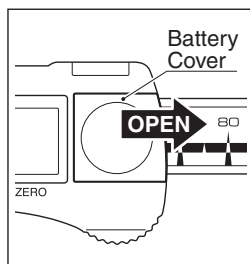
- Doing so may cause accident or injury. Please contact distributor or place of purchase for service.

PREPARATION FOR USE

Preparations to be performed after purchase prior to first use.

- Please wipe off corrosion protectant with a soft, oiled cloth.
- Please insert Battery.
- ① Slide cover in direction of arrow.
- ② Insert battery with (+) side outward.
- ③ Replace Battery Cover.

※ Use one SR44 Battery



OPERATION

Preparation Before Use

- ① Wipe off Corrosion Protectant Oil from Gauge using a soft cloth moistened with oil.
- ② Remove any dirt or contamination from measuring surfaces and slide before use.
- ③ Check alignment of Measuring Surfaces by placing in fully closed position and using light to verify that they are tight. Make sure there is no gap between surfaces. (light does not pass.)

Absolute Measurement

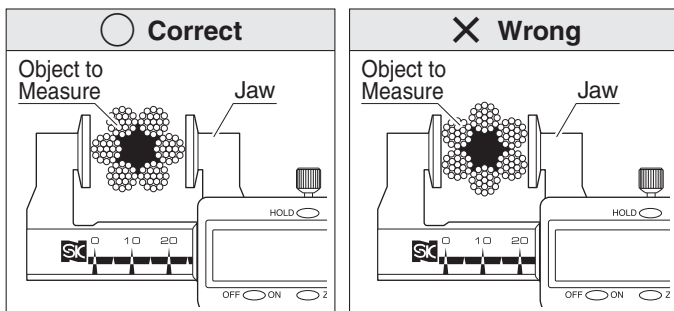
- ① Press [ON/OFF] to turn ON power.
- ② With caliper Jaws fully closed, press the [ZERO] Button.
- ③ When "0.00mm" is displayed on LCD, caliper is ready for measurements

Relative Measurement

- ① Press [ON/OFF] to turn ON power.
- ② With caliper Jaws closed, or at any desired position, press the [ZERO] Button.
- ③ When "0.00mm" is displayed on LCD, caliper is ready for measurements.

※ Exceeding the maximum response speed of caliper will lead to erroneous reading on LCD.
Please do not move LCD slide violently.

How to Position Object to Measure



CALIBRATION

- We recommend a regular accuracy check by periodic calibration in order to insure measurement accuracy. With extended use, the measuring surfaces will wear and accuracy may be affected. We recommend implementing a regular accuracy check.

We provide calibration services. Please contact agent in country of purchase to make arrangements.

TROUBLESHOOTING

- Q. Nothing is displayed, or the numbers are flashing.
A. The battery may be running low, please replace battery with a new one.
- Q. With power on, the number on the LCD does not change as Display Unit is moved.
A. Please reset by removing battery for about 30sec., and then replacing.
- Q. Nothing happens when buttons are pressed.
A. Make sure battery is properly inserted.
- Q. The characters "MIN", "MAX", or "△" are displayed on LCD.
A. Cycle power, or apply several long presses to [HOLD] Button. Use as normal once character is off.

AFTER USE CARE • STORAGE

- After use, wipe off any dirt or oil from measuring surfaces, sliding surfaces, and exterior of Gauge using a soft cloth and corrosion protecting oil. Use thin coating of corrosion protectant or store in anti-rust bag.
- Store with Lock Screw slightly loose and Jaws open approximately 1mm to prevent excessive force caused by thermal expansion. Excessive forces may affect accuracy.
- Store in provided case in a cool, dry, location out of direct sunlight. Keep secure from unauthorized personnel.
- If Gauge will not be used for more than one month, please remove battery to prevent damage from battery leakage.

SERVICE

- If Instrument is not working properly, or if you have any questions, please contact distributor or place of purchase.
- Please note, manufacturer is unable to respond to inquiries or provide service directly. Please contact distributor or place of purchase.

PRODUCT SPECIFICATIONS

Model No.	WR-100
Resolution	0.01mm
Measurement Range	0-100mm
Instrument Error	±0.05mm
Auto-Off Feature	approx. 20min.
Operating Temperature Range	0°C ~ 40°C
Storage Temperature	-10°C ~ 60°C
Max. Response Speed	Opening: 1.5m/s Closing: 0.75m/s
Weight	approx. 170g
Power Supply	Silver Oxide Battery: SR44 • 1.55V
Battery Life	approx. 1 Year with normal use.
Accessories	Silver Oxide Battery: SR44 1.55V (1x included for test)

SK Niigata seiki Co., Ltd.

6-15-22, Tsukanome, Sanjo, Niigata, Japan, 955-0055
Tel.: +81-256-31-5660 Fax.: +81-256-39-7730
MAIL: intl.sales@niigataseiki.co.jp
URL: http://www.niigataseiki.co.jp