



Thank you for choosing our product.  
Please read this user's manual thoroughly for your safety.

# Digital Caliper No.GND15, GND20, GND30 User's manual

## For Your Safety

Please read carefully before you use.

The following symbols are used in this user's manual.

	Possible consequence		Must conduct
	Prohibited		Disassembly prohibited

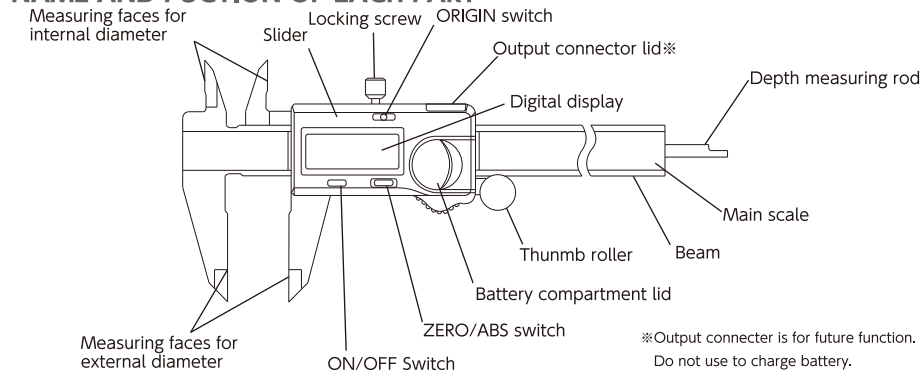
WARNING Failure to observe the following warnings can cause death or serious injury.		
Symbol	Description	Hazard/Damage
	● Stop using the product if the battery has a leak or if you notice an abnormal odor.	There is a danger of leakage, heating, or explosion. If your skin or clothing comes in contact with the battery fluid, immediately rinse it with plenty of water.

CAUTION Failure to observe the following cautions can cause injury or property damage.		
Symbol	Description	Hazard/Damage
	● Do not use the product except the intended purpose.	May cause property damage.
	● Do not disassemble or modify the product.	May cause property damage.
	● Do not measure the object when it is rotating.	May cause property damage.
	● Jaws of this caliper have a sharp edge. Handle it with care to avoid injury.	May cause property damage.
	● Keep the product to be far from children.	May cause property damage.
	● Do not use the product in a highly humid or wet location.	May cause property damage.
	● Do not hit or apply stress.	May cause damage to the product or property.
	● Do not drop the product.	May cause damage to the product or property.
	● Do not leave the product in a high-temperature location – for example, exposed to direct sunlight or near a heating device.	May cause property damage.
	● Do not drop or leave the product in water.	May cause property damage.
	● Do not leave any chemical, salt water, or moisture on the product.	May cause property damage.
	● Wear protective glasses for your safety.	May cause injury.

## IMPORTANT

- Before using this caliper for the first time, wipe the rust preventive oil from the caliper with a soft cloth soaked with cleaning oil.
- Never apply voltage (e.g. electric engraver) on any part of the caliper to avoid the damage on the circuit.
- After the usage, take rust preventive treatment. Corrosion will cause the trouble.

## NAME AND FUCTION OF EACH PART



## SPECIFICATIONS

Product name	Digital Caliper 150mm	Digital Caliper 200mm	Digital Caliper 300mm
Part No.	GND15	GND20	GND30
Measuring range	0 ~ 150mm	0 ~ 200mm	0 ~ 300mm
Increment	0.01mm		
Accuracy	±0.03mm		±0.04mm
Battery	Type	Button cell(CR1632) ※Do not use a rechargeable one	
	Durability	About 2.5 years under normal operation	
Operation environment	Temperature	0 ~ 40°C	
	Humidity	Less than 80% (no dew condensation)	
Storage temperature	-10 ~ 60°C		
Auto power-ON	By moving the slider, the power is turned on automatically.		
Auto power-OFF	The power is turned off automatically more than 5 minutes unused.		

## OPERATIONS

### 1. Preparation

- (1) Dry the surface of the main scale (please see IMPORTANT) and clean all measuring surfaces.
- (2) Loosen the locking screw and move the slider to check if display and all switches work properly.

### 2. Measurement

- (1) Press ON/OFF switch or move slider to switch on power.
- (2) Close the gauge to check the display.
  - a) The display should be 0.00mm to start measuring (because this caliper has been set origin before sending).
  - b) If "....." displayed, press ORIGIN switch to make the display to be 0.00mm. Now setting origin is finished.
  - c) If other digits are displayed, press ORIGIN switch longer to make the display to be 0.00mm. Now setting origin is finished. (When the caliper is in incremental mode, it returns to absolute mode).
- (3) Switch of absolute measurement mode and incremental measurement mode.
  - a) When the power is turned on, the caliper is ABS measurement mode. Zero setting is not required to display absolute value.
  - b) Press the ZERO/ABS switch to enter the INC measurement mode, which is used for comparative measuring. Put the measuring face at the position where you want to set the zero point, and press ZERO/ABS switch to set the displayed value to 0.00mm. "INC" will appear in the left corner of the display and the caliper will enter the INC measurement mode. The length from the zero point can be measured by continuous measuring.
  - c) If you make long press the ZERO/ABS switch while "INC" is displayed, the "INC" disappears and switches to the ABS measurement mode. The current absolute value will be displayed.

### 3. Battery Installation and Origin (Zero Point) Setting

When "⚡" (low voltage alarm) blinks, it shows flat battery. Now a battery should be replaced (please always use a CR1632 battery). Removing an old battery by pushing backward a battery cover and install a new battery to make sure the positive pole of the battery must face out. Upon installation of new batteries, "GL-AP" will be displayed and then the digits will be displayed. If 0.00mm is not displayed when move the slider and close the jaws, then press the ORIGIN switch for about 1 second and perform origin setting. Reinstall the batteries if the value does not appear.

## DISPOSING OF PRODUCT

If you dispose this product, please follow the regulations/laws at your country.

## 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 position
Fixed digits	Accidental trouble in circuit	Take out battery and put it back after one minute

Manufacturer name and address : **KYOTO TOOL CO., LTD.**

※Specification and appearance may change without notice for improvement.

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Contact KTC customer service or your dealer for any questions regarding repair.

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