

# ITEM:SH20

# FEATURES

1.EXTERNAL MEASURING JAWS 2.INTERNAL MEASURING JAWS 3.DEPTH BLADE 4.STEP MEASURING FACES 5.BEAM 6.SAE & METRIC SCALE 7.BATTERY COMPARTMENT 9.LCD DISPLAY 10.SLIDER CLAMP SCREW



11.THUMB ROLLER 12.ON/OFF SWITCH 13.ZERO SWITCH 14.SAE&METRIC CONVERSION SWITCH

FOR YOUR SAFETY, and CARE OF THIS TOOL Please read these instructions carefully and retain them for future use.



# SPECIFICATIONS AND FUNCTIONS

Your digital caliper was constructed with quality materials and workmanship and will Give you many years of trouble free use when cared for as described in the "Care & Maintenance" section.

Measuring Range:	Resolution:
0-150mm/0-6 "	0.01mm/0.0005 "
0-200mm/0-8 "	0.01mm/0.0005 "
0-300mm/0-12 "	0.01mm/0.0005 "
Measuring Range:	Accuracy:
0-200mm/0-8 "	0.03mm/0.001 "
200-300mm/8-12 "	0.04mm/0.0015 "

Repeatability:0.01mm or 0.0005"

Maximum measuring speed: 1.5m/sec or 60"/sec.

**Measuring system :** Non-contaction linear CAP measuring system **Display:** LCD display .minus sign: "-", character in 6.35mm/0.25" height for 5 digits ,small digit "5" and "IN" sign for inch measuring unit .

**Battery:** One silver oxide battery 1.5V for one year of continuous use . Low battery warning by flashing display.

Operating temperature:0℃-+40℃

Storage temperature:-20°C~+70°C

**Influence of humidity** :Not important within 0 to 80% of relative humidity.

**Data output:** Serial output for interface with host computer or printer **Data processing interface (option)**:Functions:

Data storage ,processing & printing,with software of quality control Auto power off Measurements of external dimensions



#### Measuremengts of internal dimensions



# Measurements of depth

#### Measurements of steps



Differential method measurement (Application of zero setting)



### CARE&MAINTENANCE

1. Keep body face clean ;prevent liquid material from getting into slider to destroy electronics

2. Face should be cleaned with a clean, dry, lint-free cloth. Lubricate body with a few drops of clock oil. Acetone & alcohol must not be used.

3. Keep battery compartment clean and free of corrosion.

### TROUBLESHOOTING

# PROBLEM:

Every second 5 digits Jump Simultaneously

Display cannotcount.

Display shows 000.00 Or IN 00.000

.5

Function buttons not active

Reading error for full Length is≥0.1mm

No display on LCD screen

### SOLUTION:

Battery voltage is under 1.45V. Remove cover and replace battery.

Faulty circuit . Remove battery ,after 30 sec.put battery back into compartment .

Function buttons and sliders signal end may have shorted out .Remove the cover ,put the button springs in place with rubber covers.Contact must be unobstructed.

Springs or rubber covers may be out of Shape due to excessive pressing .See solution above for tips.

Sensor may have dirt or deposits in it

Remove cover and slider assembly . Blow off sensor face with clean pressurized air (≥51kg/cm squared), clean with a dry ,lint-free cloth.

 Poor battey contact .Check battery compartment ,clean if necessary .
Battery voltage is under1.3V .
Replace with correct battery.