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FORK MEASURING COMPANY
Vavdi Sr.No. 17, Plot No 55B, Rani Industrial Estate
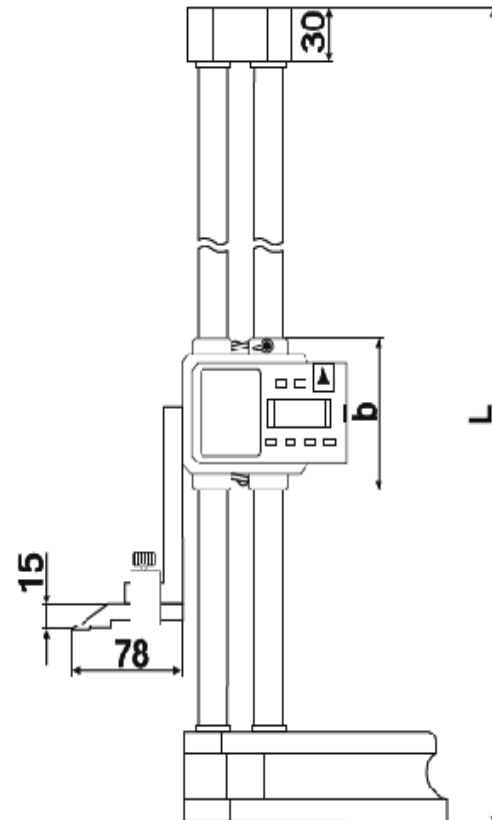Gondal Road, Rajkot-360002

INSTRUCTION MANUAL FOR DIGITAL HEIGHT GAUGE (400-300)

➢ **Features**

- ✓ Resolution: 0.01mm/0.001"
- ✓ Buttons: on/off, zero, mm/inch, ABS/INC, preset +, preset -, set
- ✓ ABS/INC is for absolute and incremental measurement
- ✓ Carbide tipped scriber
- ✓ SR44 or LR44 battery
- ✓ Power consumption : working current <12μA, one 1.5v silver oxide battery
  (SR44W or SR44 battery) can be used continuously for one year. If the voltage is insufficient, then the display will flats it means that a new one should replace the battery
- ✓ Data output
- ✓ With driving wheel
- ✓ Max. Measuring speed: 6π rad/s foe hand wheel
- ✓ Measuring system: Non-contact rotating condenser measuring system
- ✓ Display: LCD, with 5 digits and a sign character or 8mm height
- ✓ Repeatability precision: 0.01mm/0.001"
- ✓ Operating temperature: 0° to 40°C
- ✓ Storage temperature: -20° to 70°
- ✓ Environment humidity: Relative humidity<80%
- ✓ Measuring range and accuracy:

Measuring Range (mm)	Accuracy (mm)
0 - 200 mm	± 0.030
> 200 – 600 mm	± 0.040
>300 – 600 mm	± 0.050

➢ **Technical Specification**

Code	Range	Reading	Accuracy	b	L	H
	mm / in	mm / in	mm	mm	mm	mm
400-300	0-300 / 12"	0.01 / 0.0005"	0.04	90	134	475
400-600	0-600 / 24"	0.01 / 0.0005"	0.04	120	180	810

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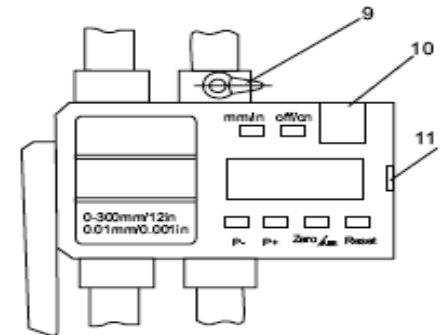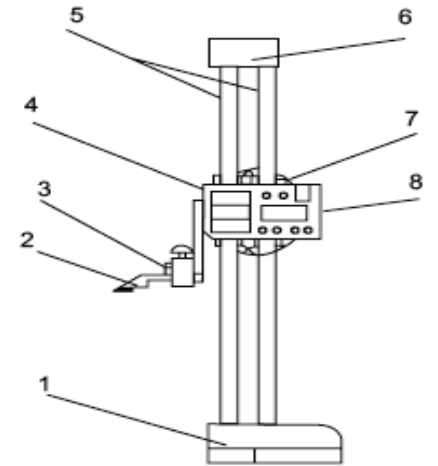Gondal Road, Rajkot-360002

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➢ Main Specification

- ✓ 1.Base
- ✓ 2.Scriber
- ✓ 3.Measuring Jaw
- ✓ 4.Slide frame
- ✓ 5.Cylider rack
- ✓ 6.Beam
- ✓ 7.Handwheel
- ✓ 8.Display
- ✓ 9.Slider clamp
- ✓ 10.Battery chamber lid
- ✓ 11.Data output port:

Measuring data output port for linking to a computer or a printer.

➢ Functions

Functions of Keys: mm/in: Metric system/British system shifter
OFF/ON: Display on/off.
P-: Negative preset.
P+: Positive preset. ZERO/ABS Relative/Absolute Measuring shifter
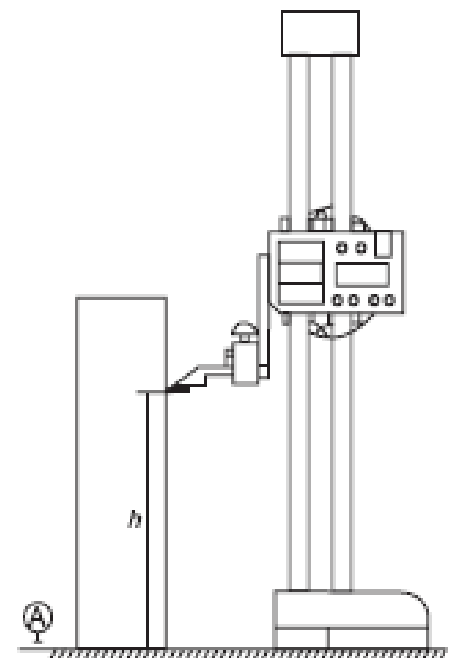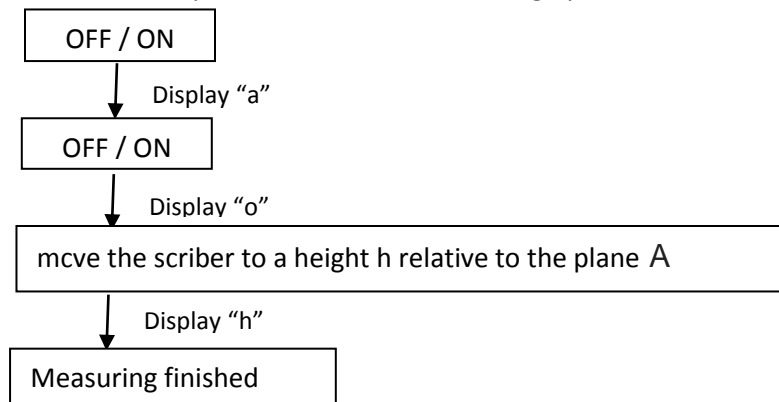RESET: preset/Set to zero for display
Features: Having function of memorizing preset value before taking away the battery
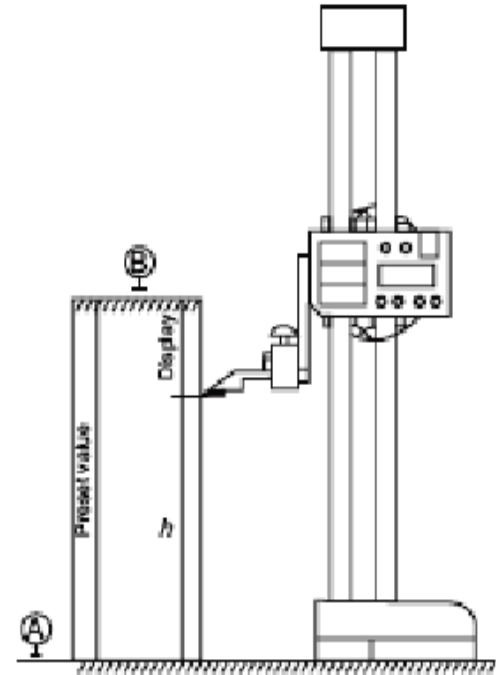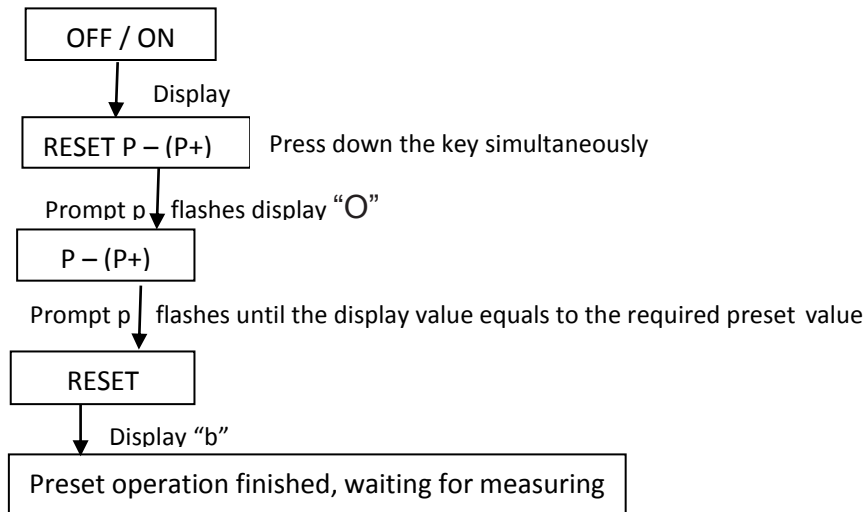
➢ Application

- ✓ Measuring Methods:
  - • Measuring without preset value
    Let the bottom plane of the scriber contact with the
    -base plane A than do the following operations:

| OFF / ON |

↓ Display "a"

| OFF / ON |

↓ Display "o"

| mcve the scriber to a height h relative to the plane A |

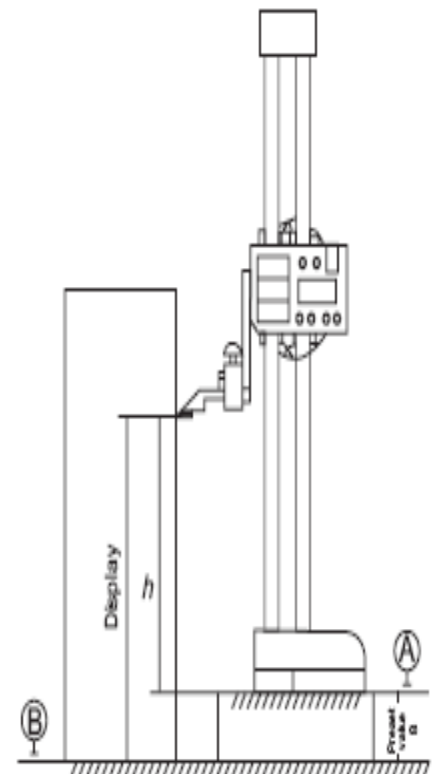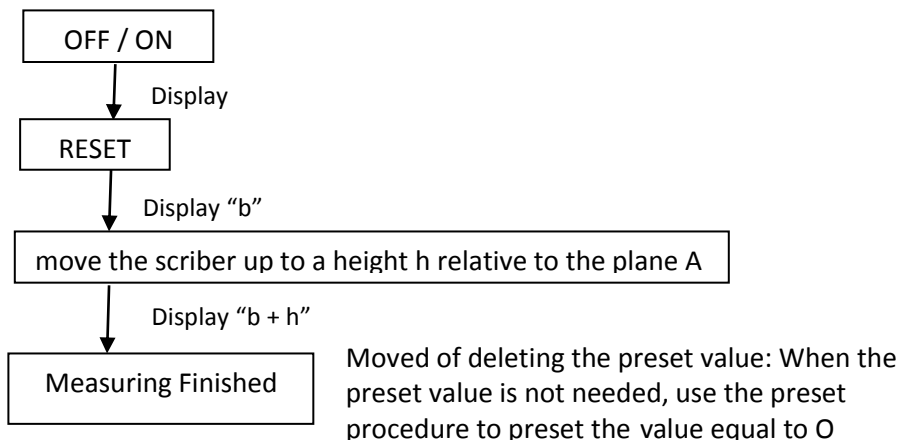↓ Display "h"

| Measuring finished |

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- Measuring with preset value
  Preset procedure is as follows

```
┌──────────────┐
│   OFF / ON    │
└──────────────┘
       │ Display
       ▼
┌──────────────┐
│ RESET P – (P+) │   Press down the key simultaneously
└──────────────┘
  Prompt p ↓ flashes display "O"
┌──────────────┐
│   P – (P+)    │
└──────────────┘
  Prompt p ↓ flashes until the display value equals to the required preset value
       ▼
┌──────────────┐
│    RESET      │
└──────────────┘
       │ Display "b"
       ▼
┌─────────────────────────────────────────┐
│ Preset operation finished, waiting for measuring │
└─────────────────────────────────────────┘
```

- Measuring procedure with preset value "b"
  Turn the hand wheel, let the bottom plane of the scriber contact with the base plane A , then do the following operations:

```
┌──────────────┐
│   OFF / ON    │
└──────────────┘
       │ Display
       ▼
┌──────────────┐
│    RESET      │
└──────────────┘
       │ Display "b"
       ▼
┌──────────────────────────────────────────────┐
│ move the scriber up to a height h relative to the plane A │
└──────────────────────────────────────────────┘
       │ Display "b + h"
       ▼
┌──────────────────┐
│ Measuring Finished │
└──────────────────┘
```

Moved of deleting the preset value: When the preset value is not needed, use the preset procedure to preset the value equal to O

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OFF / ON
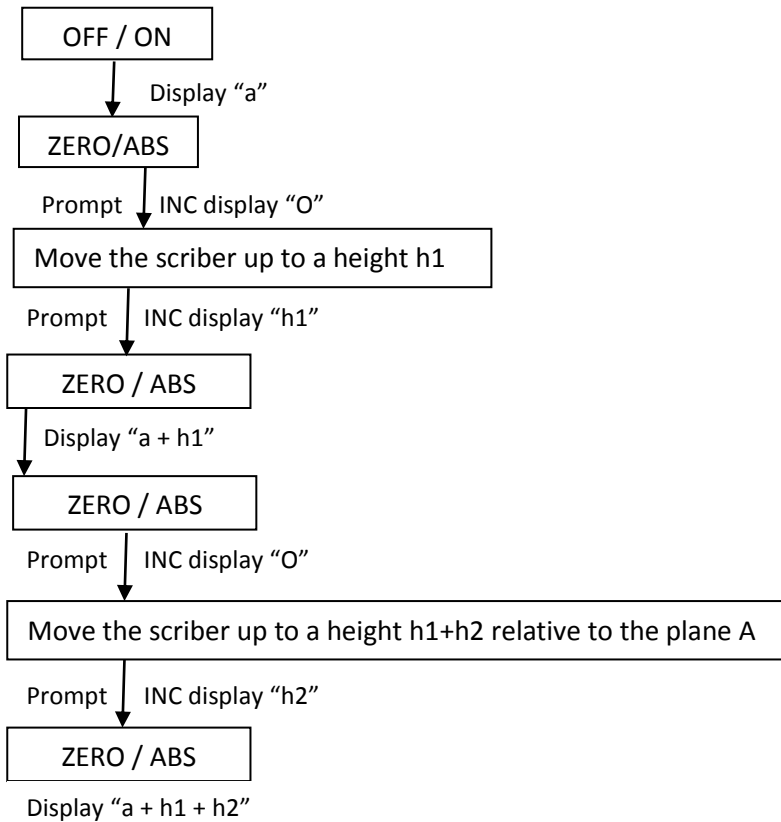
Display "a"

ZERO/ABS

Prompt | INC display "O"

Move the scriber up to a height h1

Prompt | INC display "h1"

ZERO / ABS

Display "a + h1"

ZERO / ABS

Prompt | INC display "O"

Move the scriber up to a height h1+h2 relative to the plane A

Prompt | INC display "h2"

ZERO / ABS

Display "a + h1 + h2"

➢ Battery Replacement

- Push the battery chamber lid upward and take it away. From notch on the upper side of the chamber, pick out the battery. Through the front put in the new battery

- Then press the ON/OFF key, let the LCD work, turn the hand wheel to simulate measuring procedure to see if the display data very or not. If not, take out the battery bad re-install it. If the display data do vary, close the battery chamber with the lid.

- The original preset value will be lost after the battery replacement operation, it should be present again if it is needed.