

## Instruction Manual

### **ORION**® Electronic Depth Calliper

#### 1. Maintenance Instructions:

- 1.1 Before using the Electronic Depth Calliper, clean the surface of the protective sticker with dry and clean cloth (or soaked with cleaning oil). Prevent any hydrous liquid from the protective sticker.
- 1.2 Never apply voltage (e. g. engraving with an electric pen) on any part of the Electronic Depth Calliper for fear of damaging the circuit.
- 1.3 As soon as the instrument would be opened from the user the guarantee will be cancelled.

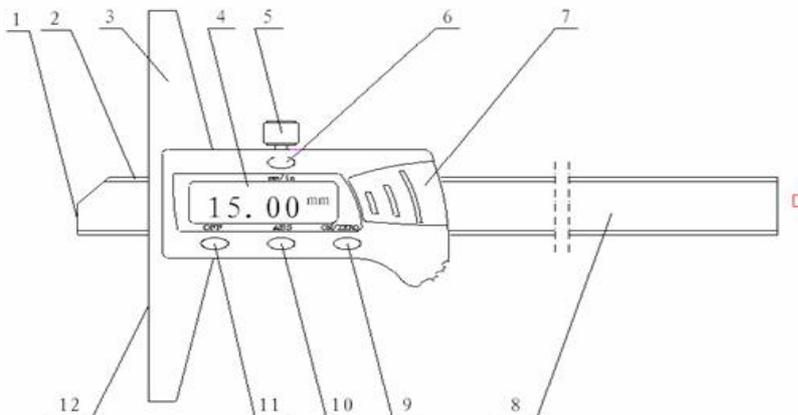
#### 2. Technical Specifications:

- 2.1 Measuring range: 0-150mm or 0-200mm or 0-300mm or 0-500mm
- 2.2 Resolution: 0.01mm / 0.0005in
- 2.3 Error limit: DIN 862
- 2.4 Maximum sliding speed: 1,5m/s (60"/s)
- 2.5 Power: 1 x 1.55 V silver oxyde button cell (type SR44)
- 2.6 Auto power on after moving the slider
- 2.7 Power safe function: Auto power off after 20 minutes (last measured value will be recorded)

#### 3. Working Conditions:

- 3.1 Working temperature: 0~+40degrees Celsius
- 3.2 Storage temperature: -10 degrees~+60 degrees Celsius

#### Diagrammatic Sketch of Structure



- |                        |                       |                      |
|------------------------|-----------------------|----------------------|
| 1. Measuring stop face | 2. Beam               | 3. Slider            |
| 4. LCD-display         | 5. Locking screw      | 6. mm/inch button    |
| 7. Battery cover       | 8. Protective Sticker | 9. ZERO button       |
| 10. ABS button         | 11. OFF/ON button     | 12. Measuring Bridge |

#### 4. Functions:

- 4.1 Zero setting at any position.
- 4.2 mm/inch system interchange at any position.
- 4.3 Switch-over between relative and absolute measurement.

#### 5. Operation with the **ORION** Electronic Depth Calliper:

##### 5.1 Readiness for operation:

- 5.1.1 Clean the surface of the protective sticker with dry and clean cloth (or soaked with cleaning oil).
- 5.1.2 Loosen the locking screw, move the slider to check if the LCD and all the buttons work properly.

##### 5.2 Measurement:

- 5.2.1 As soon as you move the slider the Electronic Depth Calliper will be switched on automatically.
- 5.2.2 Press mm/inch button to select the desired unit system.
- 5.2.3 Move the slider to a flat surface gently, e.g. on surface granite plate, then press ZERO button to set zero and then you can start measuring.

##### 5.2.4 Operation of ABS button:

As soon as the Electronic Depth Calliper will be switched on it is in the absolute measurement mode. After pressing the ABS button it will change to the relative measurement mode. The display does show "ABS" and "0.00". Now you can preset a positive correction value. In this case please keep pressing the ABS button for more than 2 sec. The display will show SET and the first digit is flashing. After pressing the ABS button again shortly it will change to the next digit also flashing. Now press the ZERO button in order to preset the desired correction value. If you keep pressing the ZERO button the electronic will count up the digits, if desired until the last digit. As soon as the desired preset of correction value is finished repress the ABS button again more than 2 sec. Now you can work with the value of the preset. After pressing the ZERO button the Electronic Depth Calliper will return back to the absolute measurement mode and will keep the original zero point.

#### 6. Battery Replacement:

Abnormal display (digits flashing or even no display) shows a flat battery. To replace the battery, just push the battery cover to the right end of the Depth Calliper and replace the battery with a new one. Please note that the positive side (+) of the battery must face out. If the new battery would not work satisfactorily please do not hesitate to contact the supplier.

#### 7. 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 housing
Fixed digits	Trouble in circuit	Remove the battery and put it back after one minute

**Notice:** We reserve the right to modify or change the design of our products, especially because of improvements and further development.