

**R7406**

# **REED**

## **INSTRUMENTS**

### **Digital Caliper** **6" (150mm)**



### **Instruction** **Manual**

# Table of Contents

|                                      |     |
|--------------------------------------|-----|
| Introduction .....                   | 2   |
| Product Quality.....                 | 2   |
| Safety .....                         | 3   |
| Features.....                        | 4   |
| Included.....                        | 4   |
| Specifications .....                 | 5   |
| Instrument Description .....         | 6   |
| Operating Instructions.....          | 7-8 |
| <i>Power ON/OFF</i> .....            | 7   |
| <i>Auto Power-Off</i> .....          | 7   |
| <i>Measurement Functions</i> .....   | 7-8 |
| Troubleshooting .....                | 9   |
| Battery Replacement.....             | 9   |
| Applications.....                    | 10  |
| Product Care .....                   | 10  |
| Product Warranty .....               | 10  |
| Product Disposal and Recycling ..... | 11  |
| Product Support.....                 | 11  |

## Introduction

Thank you for purchasing your REED R7406 Digital Caliper 6" (150mm). Please read the following instructions carefully before using your instrument. By following the steps outlined in this manual your meter will provide years of reliable service.

## Product Quality

This product has been manufactured in an ISO9001 facility and has been calibrated during the manufacturing process to meet stated product specifications. If a certificate of calibration is required please contact the nearest authorized REED distributor or authorized Service Center. Please note an additional fee for this service will apply.

## Safety

Never attempt to repair or modify your instrument. Dismantling your product, other than to replace batteries, may cause damage that will not be covered under the manufacturer's warranty. Servicing should only be provided by an authorized service center. To avoid injury to the user or damage to the instrument, please read the safety information below before initial use.

### **WARNING**

- Remove and immediately recycle or dispose of used batteries according to local regulations and keep away from children. Do NOT dispose of batteries in household trash or incinerate.
- Even used batteries may cause severe injury or death.
- Call a local poison control center for treatment information.
- Identification of compatible battery type: CR2032
- Nominal battery voltage: 3V
- Non-rechargeable batteries are not to be recharged.
- Do not force discharge, recharge, disassemble, heat above 140°F (60°C) or incinerate. Doing so may result in injury due to venting, leakage or explosion resulting in chemical burns.
- Ensure the batteries are installed correctly according to polarity (+ and -).
- Do not mix old and new batteries, different brands or types of batteries, such as alkaline, carbon-zinc, or rechargeable batteries.
- Remove and immediately recycle or dispose of batteries from equipment not used for an extended period of time according to local regulations.
- Always completely secure the battery compartment. If the battery compartment does not close securely, stop using the product, remove the batteries, and keep them away from children.



## Features

- Measure outside dimension, inside dimension, depth and step measurements
- Easy-to-read 5-digit LCD display
- User selectable unit of measure (in/mm)
- Zero adjustment button
- Lock screw to hold slide in position
- Hardened stainless steel head and body
- Low battery indicator and auto shut off

## Included

- Digital Caliper
- Battery
- Hard Carrying Case

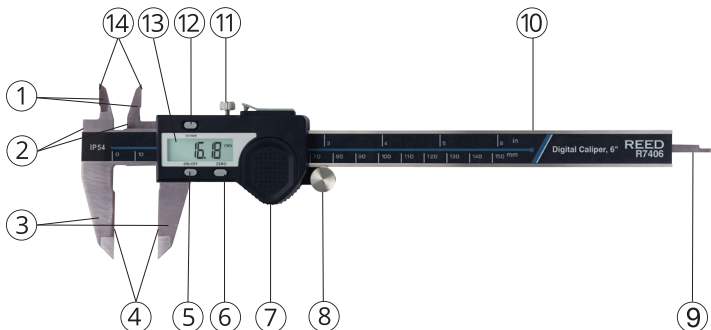
## Specifications

|                  |                                                                                                      |
|------------------|------------------------------------------------------------------------------------------------------|
| Measuring Range: | 0 to 6" (0 to 150mm)                                                                                 |
| Resolution:      | 0.0005" (0.01mm)                                                                                     |
| Accuracy:        | 0 to 1.967" (0 to 50mm): $\pm 0.0010"$ (0.02mm)<br>1.967 to 6" (50 to 150mm): $\pm 0.0011"$ (0.03mm) |
| Repeatability:   | 0.0005" (0.01mm)                                                                                     |

### General Specifications

|                           |                                     |
|---------------------------|-------------------------------------|
| Display:                  | 5-digit LCD                         |
| Unit of Measure:          | Inch/Metric                         |
| Zero Button:              | Yes                                 |
| Auto Shut-off:            | Yes (5 mins)                        |
| Low Battery Indicator:    | Yes                                 |
| Power Supply:             | CR2032                              |
| Product Certifications:   | CE, IP54                            |
| Operating Temperature:    | 32 to 104°F (0 to 40°C)             |
| Storage Temperature:      | 14 to 122°F (-10 to 50°C)           |
| Operating Humidity Range: | 0 to 85%                            |
| Dimensions:               | 9.3 x 3.1 x 0.6" (235 x 78 x 15 mm) |
| Weight:                   | 5.6oz (160g)                        |

# Instrument Description



1. Inside Measuring Jaws
2. Step Measuring Surface
3. Outside Measuring Jaws
4. Outside Measuring Surface
5. Power ON/OFF Button
6. Zero Adjustment Button
7. Battery Compartment Cover
8. Thumb Roller
9. Depth Bar
10. Scale
11. Slider Clamp Screw
12. Unit of Measure Button
13. LCD Display
14. Inside Measuring Surface

# Operating Instructions

## *Power ON/OFF*

Press the **POWER** button to turn the instrument on. To turn the instrument off, press and hold the **POWER** button.

## *Auto Power-Off*

As a default, the instrument will automatically turn off after 5 minutes of inactivity.

## *Measurement Functions*

### *Measurements of external dimensions*



### *Measurements of internal dimensions*



## Measurements of depth



## Differential method measurement (application of zero setting)



*continued...*

## Troubleshooting

| Issue                                              | Solution                                                                                                                                                                      |
|----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LCD does not show measurements or numbers flashing | Possible low battery. Remove battery compartment cover and replace battery.                                                                                                   |
| Display frozen                                     | Remove battery, wait 30 secs. and put the battery back into the instrument.                                                                                                   |
| Reading error $\geq 0.1$ mm                        | Sensor may have dirt or deposits affecting measurements. Remove cover and slider assembly. Blow sensor face with clean pressurized air and clean with a dry, lint-free cloth. |

## Battery Replacement

1. Turn off the caliper.
2. Remove the battery compartment door.
3. Remove and replace the CR2032 battery.
4. Fasten the battery door.

**⚠ WARNING INGESTION HAZARD • DEATH** or serious injury can occur • A swallowed button cell or coin battery can cause **Internal Chemical Burns** in as little as **2 hours** • Keep new and used batteries **OUT OF REACH OF CHILDREN** • **Seek immediate medical attention** if a battery is suspected to be swallowed or inserted inside any part of the body • For treatment information call: 1-800-498-8666.

## Applications

- Fabricating
- QA departments
- General industrial use

## Product Care

To keep your instrument in good working order we recommend the following:

- Store your product in a clean, dry place.
- Keep the body of the instrument clean and prevent liquid from getting into the slider as it may damage the instrument.
- Change the battery as needed.
- If your instrument isn't being used for a period of one month or longer please remove the battery.
- The LCD Display should be cleaned with a clean, dry, lint-free cloth. Lubricate the instrument with a few drops of clock oil. Avoid using acetone and alcohol.

## Product Warranty

REED Instruments guarantees this instrument to be free of defects in material or workmanship for a period of one (1) year from date of shipment. During the warranty period, REED Instruments will repair or replace, at no charge, products or parts of a product that proves to be defective because of improper material or workmanship, under normal use and maintenance. REED Instruments total liability is limited to repair or replacement of the product. REED Instruments shall not be liable for damages to goods, property, or persons due to improper use or through attempts to utilize the instrument under conditions which exceed the designed capabilities. In order to begin the warranty service process, please contact us by phone at 1-877-849-2127 or by email at [info@reedinstruments.com](mailto:info@reedinstruments.com) to discuss the claim and determine the appropriate steps to process the warranty.

## Product Disposal and Recycling



Please follow local laws and regulations when disposing or recycling your instrument. Your product contains electronic components and must be disposed of separately from standard waste products.

## Product Support

If you have any questions on your product, please contact your authorized REED distributor or REED Instruments Customer Service by phone at 1-877-849-2127 or by email at [info@reedinstruments.com](mailto:info@reedinstruments.com).

Please visit [www.REEDInstruments.com](http://www.REEDInstruments.com) for the most up-to-date manuals, datasheets, product guides and software.

*Product specifications subject to change without notice.  
All rights reserved. Any unauthorized copying or reproduction of  
this manual is strictly prohibited without prior written permission  
from REED Instruments.*