

VII.3 Transmission parameters

4800 Bds, even parity, 7 data bits, 2 stop bits

VII.4 Error messages

In the event of an error, the instrument transmits the following message:

<ERR0> Measuring system error. Acknowledge by a data request or by means of the [set] button.

VIII. Specifications

Measuring range:

internal: 0-6" / 0-8" / 0-12"
external: 0-6" / 0-8" / 0-12"
depth: 0-6" / 0-8" / 0-12"
shoulder: 0-6" / 0-8" / 0-12"
Resolution: 0.01 mm / .0005"
Accuracy: 20µm, .001" (150mm, 6")
30µm, .0015" (200mm, 8")
30µm, .0015" (300mm, 12")

Repeatability:

10µm, .0005" (+/-2s)

Operational speed:

1.5 m/sec.

Number of measurements per second:

8 measurements/sec.

Units of measurement:

mm/INCH (direct conversion)

Measuring system:

SYLVAC system (patented)

Display:

digital LCD, display of unit and operating mode.

Power:

1 lithium battery 3 V, type CR2032 / 190 mAh.

Battery types:

Toshiba CR2032
Maxell CR2032
Renata B/CR2032
Sanyo CR2032
Ucar CR2032
Panasonic CR2032
Rayovac CR2032
Varta CR2032.

Power consumption:

60 µA.

Battery life:

1 year or > 3000 hours with normal use. When 'B' is displayed, the remaining battery life is several hours. (To protect the environment, please recycle the used battery at a facility intended for this purpose)

Working temperature:

+5 to +40 °C.

Data output:

RS232 compatible format

Interface:

RS232 interface cable, with optical coupling. OPTO-RS compatible

Construction:

hardened and ground stainless-steel

Protection:

IP 40 (according to IEC 529)

Weight:

150 g. (150mm)

IX. Accessories

OPTO-RS232 connector, 2m cable, duplex connection for PC-AT (Dsub 9p)

X In case of problems

In the event of a malfunction (incorrect or frozen display, for example), reset the instrument.

X.1 [Mode] button inoperative

Check that the 'C' symbol appears when the [mode] button is pressed. If it does, unlock the [mode] button by momentarily depressing [set] and [mode] simultaneously.

X.2 The instrument won't switch off

Remove the OPTO-RS connector, or disable the LED of the connector. It is not possible to switch the instrument off when the LED is illuminated.



Fred. V. Fowler Co., Inc.
66 Rowe St. P.O. Box 299
Newton MA. 02166

Phone 617 / 332-7004
Fax 617 / 332-4137



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Operating manual for caliper Ultra Cal Mark III

I.1 Introduction

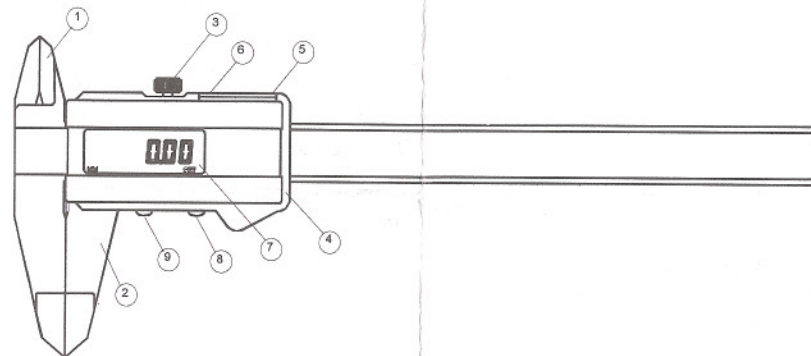
The caliper has two operating modes, which can be selected by pressing the [mode] button for more than 1 second. The functions of each mode are activated by momentarily depressing (< 1 sec) the [mode] or [set] buttons:

- Measuring mode:
- change units mm/INCH
 - change zero point for any slide (cursor) position
- Reference mode:
- store measurement (hold display)
 - send measurement to statistical processing unit or printer

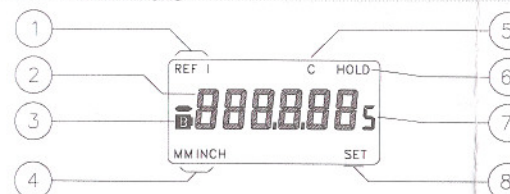
This caliper is equipped with an OPTO-RS compatible data output.

I.2 Features

1. Internal measurement jaws
2. External measurement jaws
3. Slide locking mechanism
4. Slide
5. Cover for OPTO-RS connector
6. Flip-off cover for easy battery exchange
7. Multifunctional LCD
8. [set] (ON / OFF) button
9. [mode] button



I.3 Multifunctional display



1. Reference mode indicator
2. Measured value
3. Battery life warning display
4. Unit of measurement indicator
5. Locked mode indicator
6. Hold indicator
7. Display .0005 inch
8. Measuring mode indicator

II. Functions

II.1 Operation

Press button for less than 1 second to activate button function.



Press button for more than 1 second to activate mode change.

