

MATERIALS

- 563 Gauge and patented SRP-4 Probe (US 7,148,712)
- OICM Certified ½ oz Standard

CALIBRATION

- Factory calibrated
- Auto correct fine lines

OPERATING SPECIFICATIONS

MEMORY STRUCTURE

- Locations 01 to 99 available.
- Current location shown in the upper left of display.
- Stores readings and corresponding statistics, Copper (Cu) Type, Fine Line, Conductivity Factor (CF) and Offset parameters.

Cu TYPE

- Electrodeposited: 0.1mil/2.5um to 6mil/152.4um
- Electroless: 10uin/0.25um to 500uin/12.7um

PROBE TIP

- Replaceable module.

FINE LINE

- Auto correction for printed circuit board traces.
- Width range: 8mil/200um to 250mil/6350um

CONDUCTIVITY FACTOR (CF)

- Compensates for sample properties.
- Used when readings differ from known value.
- CF=Desired reading/Actual Reading.
- Range is 0.5 to 4.

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OFFSET

- Subtracted from reading.
- Range is 0.0 to Cu type max thickness. See above.

MEASURE MODE

MODE	DISPLAY	MEASUREMENT
Regular	Numeric	Last reading passed to STATS
Continuous	COnT	None taken
	Numeric	Probe on copper, continuous reading not passed to STATS
	InF	Probe in air, no reading
Either	-Or-	Out of range, too high

LOW BATTERY

- **BAT** shown in lower right of display.
- Replace battery with 9V alkaline type.

SAMPLE FOR MEASUREMENT

- Must be clean and free of surface defects.

USING THE GAUGE

1. Connect SRP-4 probe and power gauge on.
2. Software version shown in upper left of display and model 563 in center of display.
3. Then Cu Type, Fine Line (if used), CF (if not 1.0) and Offset (if not 0.0) parameters are shown in center of display.
4. Then last reading is shown in center of display and memory location in upper left of display.
5. To select Memory Location see below.
6. To select Parameters see below.
7. To select Measure Mode see below.

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| 8. To select Units see below. |
| 9. Place probe firmly on copper to make a measurement. |

SELECTING MEMORY LOCATION

1. Press SEL, location number and ENTER.
2. Or press SEL to scroll and ENTER to select.

SELECTING PARAMETERS

PARAMETERS	DISPLAY	INDICATION
Cu Type	Cu	Electrodeposited
	ECu	Electroless
Fine Line	ⁿ FnLn	No, don't use
	^y FnLn	Yes, use
Fine Line Width	^{FL} Numeric	MIL or UM
CF	^{CF} Numeric	Current Value
Offset	^{OF} Numeric	Current Value

1. Press *SEL.
2. Cu Type is displayed. To retain press **ENTER**. Or press **SEL** to toggle, press **ENTER** to select.
3. **n** or **y** is displayed for Fine Line. To retain press **ENTER**. Or **SEL** to toggle, press **ENTER**.
4. If **y** chosen, trace width is displayed. To retain press **ENTER**. Or enter new trace width.
5. CF is displayed. To retain press **ENTER**. Or type a numeric value, press **ENTER**. (After entry, a CF is applied to all subsequent readings at a memory location.)
6. Offset is displayed. To retain press **ENTER**. Or type a numeric value, press **ENTER**. (After entry, an Offset is applied to all subsequent readings at a memory location.)
7. Gauge returns to measurement mode.

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SELECTING MEASURE MODE

1. Press **C/M** to toggle between Regular and Continuous.

SELECTING UNITS

1. Press **UNITS** to toggle between MIL (mil = 1/1000 in) and UM (micrometer).

2. Units shown in upper right of display.

SELECTING STATS

1. Use the following keystrokes to display statistics of the stored readings at a memory location.

STATISTIC	PRESS KEY
Number of readings	N (9)
High	HIGH (4)
Low	LOW (5)
Mean	MEAN (7)
Standard Deviation	S.D. (8)

2. To clear all statistics of a memory location, press **CLEAR**, and **CLEAR** again, while a statistic is displayed.

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