

Compact,Hi-grade,Hi-performance,Lowcost Capacitance Meter

10 KHz Capacitance Meter

# Model 6651



**RST ENGINEERING CO.,LTD**

KYOTO JAPAN

# 10KHz Capacitance Meter Model 6651

- Measure wide range C value 10pF ~ 9.9  $\mu$ F
- Direct measurement of deviation value at percent to standard set value of 2 figures significant value and 1 exponent value.
- Hi-speed digital measurement of 25msec.
- Two steps (each for Positive & Negative) Digital comparator built in.
- Output compare result at every measurements ( - NG/GO/+NG).
- Buzzer for judgement result.
- BCD parallel output for every measured data built in.
- Possible remote DC bias (max. DC 25V).
- Possible external trigger.

## Specifications

Measurement Limit and Accuracy (at 23  $\pm$  5 )

| Range | Standard setting value   | Signal                | Accuracy                                           |
|-------|--------------------------|-----------------------|----------------------------------------------------|
| 0     | 10pF ~ 99pF              | Approx.<br>100m V rms | $\pm 2\% \pm 0.2\text{pF} \pm 1\text{digit TYP}$   |
| 1     | 100pF ~ 990pF            |                       | $\pm 0.5\% \pm 0.1\text{pF} \pm 1\text{digit TYP}$ |
| 2     | 1000pF ~ 9900pF          |                       |                                                    |
| 3     | 10nF ~ 99nF              |                       |                                                    |
| 4     | 100nF ~ 990nF            |                       |                                                    |
| 5     | 10 $\mu$ F ~ 9.9 $\mu$ F |                       | $\pm 1\% \pm 1\text{digit TYP}$                    |

[D<0.5 Parallel equivalent circuit]

- Measuring way : 5 terminals Measurement Parallel equivalent circuit.
- Measuring Frequency : 10kHz  $\pm 0.1\%$ , sine wave.
- Standard value setting : Digital setting of 2 figures significant value and 1 figure exponent value.
- Measure display range : - 99.9% ~ +99.9%
- Measuring time : Remote start . . . . . 25msec  
Free running . . . . . 25 times/sec.
- Correction limite of Stray Capacitance : Approx. 10pF
- Comparator set range : +LIMIT +0.0% ~ +99.9% - LIMIT - 0.0% ~ - 99.9%
- Comparator judgement : +NG/GO/ - NG Buzzer & external output.
- Output & Input : Input of Remote Start  
Compared output ( - NG/GO/+NG) } Opencollector  
Measurement end output(EOC) } max. 50V,100mA  
Measured value BCD parallel output Fan out 2.
- Power supply : AC100V / 117V / 220V / 240V  $\pm 10\%$  50/60Hz.
- Dimensions : 255(W)  $\times$  90(H)  $\times$  255(D)mm  
(excluding protrudinng parts such as rubber legs)



**RST ENGINEERING CO.,LTD.**

HEAD OFFICE

NO.382, NISHIKANAGASAKI, KANSHUJI,  
YAMASHINA-KU, KYOTO, 607-8221 JAPAN

E-mail info@rst-eng.co.jp

URL <http://www.rst-eng.co.jp/>