



## DC Milli OHM Meter for Low Resistance Measurement $(0.01 \text{ m}\Omega \sim 10 \text{k}\Omega)$

## Model 7310A

Standerd equipment of Centronics output



RST ENGINEERING CO., LTD

KYOTO JAPAN

## Milli OHM Model 7310A $\overline{DC}$ Meter

for Low Resistance Measurement

Realized low measuring current  $200 \text{mA} (0.01 \text{m}\Omega \sim 99.9 \text{m}\Omega)$ 

By high accurate amplifier installed, Model 7310A can measure very low current of 200mA and make ensure protection of probe by mitigation burden of measuring probe's top.

Measuring range  $1 \text{m}\Omega \sim 10 \text{k}\Omega$  (switching display of % & Absolute value)

Hi-speed & Hi-accurate measurement of resistance deviation between  $1 \text{m} \Omega \sim 10 \text{ k} \Omega$  and digital display.

Free setting of Contact Check operation of OFF, <u>Before,After.</u>

Can select the following 4 ways.

1) No Contact Check

2) Contact check before/ after of measurement

Contact check before measurement 3)

Contact check after measurement

★(Contact error at contact resistance over  $30\Omega$ )

Power save measurement system
Have Power Save Function which open circuit
at only the time of measurement.

Thus are he minimized measuring error by up Thus can be minimized measuring error by upward of temperature etc.

■ Full time Contact Check function

(Measuring Wayeform check)
Always check all terminal contacting conditions
while measuring and when detecting abnormal Output
Contact Error.

■ Multi-Scaling system

Can set Display Limit (Full scale display) at  $\pm 9.99\% \pm 19.99\% \pm 99.9\%$  freely

Display of 16 kinds of Contact Error When contact error, the error point can confirm by display of Cord display.

contact check error point After contact check
L terminal H terminal Below contact check
L terminal H terminal Error cord CE\* 2 \* \* 3 \* 4 5 \* \* \* 6 \* \* \* \* 7 8 \* \* \* 9 \* \* Α \* \* В C d \* \* \* \* \* \* \* Е \* \* \* \* F

Measuring way

FAST mode : SLOW mode:

Measurement in one time Masurement in two time

(average), changing polarity of measuring voltage, measure Thermoelectromotive cancel.

\* At below  $9.9 \text{m}\Omega$  of setting Force Value, mode is fixed as SLOW.

lacksquare Specifications lacksquare

Measuring range & Accuracy (at 23 $^{\circ}$ C $\pm$ 5 $^{\circ}$ C)								
Standard autting	Current	Display Limit	Accuracy					
Standard setting			±19.99% display	±9.99% display				
$01.0 \text{m}\Omega \sim 99.9 \text{m}\Omega$	200mA		within $\pm 0.05\% \pm 2$ digit	within±0.05%±1digit				
$100 \text{m} \Omega \sim 999 \text{m} \Omega$	100mA	±19.99%	within $\pm 0.03\% \pm 2$ digit	within $\pm 0.03\% \pm 1$ digit				
$1.00 \Omega \sim 9.99 \Omega$	10mA	± 9.99%						
10.0 Ω ~ 99.9 Ω	5mA	±99.9 %	within $\pm 0.03\% \pm 1$ digit					
100 Ω ~ 999 Ω	0.5mA							
1.00 kΩ ~ 10.0 k Ω	0.05mA							
$(m\Omega check 3)$	10mA	0~999mΩ	within $\pm 0.2\% \pm 1$ digit					
$(m\Omega check 2)$	100mA	0.0∼99.9mΩ	within $\pm 0.2\% \pm 2$ digit					
$(m\Omega check 1)$	200mA	0.00∼9.99mΩ	within $\pm 0.2\% \pm 3$ digit					

% Accuracy below STANDARD set value  $9.9\,\mathrm{m}\Omega$ :  $\pm 0.05 \times (10/\mathrm{m}\Omega)$  set value)%  $\pm$  with in 2 digits. % At +99.9% display mode, at all ranges are within  $\pm 0.2\% \pm 1$  digit.

Measuring Way: Four(4) Terminal Measuring.
SLOW: 2 times measurement, Changing measuring voltage polarity.
FAST: Measurement in 1 time.

Measuring time

Frequency	Remote start		Free Running	
	FAST	SLOW	FAST	SLOW
60Hz	20msec	37msec	20times per sec	15times per sec
50Hz	23msec	44msec	19times per sec	13times per sec

(Remarks)

HI/ GO/LO LED display & Buzzer Display of measurement % or absolute display Limit of judged value setting  $\pm 0.00\% \sim \pm 9.99\% \quad \pm 0.00\% \sim \pm 19.99\%$  $\pm 00.0 \% \sim \pm 99.9 \%$ 

(In case of m  $\Omega$  check : + 0.00m  $\Omega \sim 999$ m  $\Omega$ )

Input/Output signal Input signal = START, HOLD

> Output signal = HI/GO/LO (judged result) CE(Contact Error) EOC [Pulse width of sigal can be changed at 1msec between 1msec to 50msec]

Ambient conditions Temperature =  $0 \,^{\circ}\text{C} \, \sim \, + 50 \,^{\circ}\text{C}$ Humidity = below 85%

Outer dimensions 330 (W)  $\times$  99 (H)  $\times$  300 (D) mm

URL: http://www.rst-eng.co.jp E-mail: info@rst-eng.co.jp

Power Supply and Weight ACl00V/117V/220V/240V 50/60Hz 30VA approx. 6.5kg approx

\* Subject to change specifications without notice for improvement



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