

*DC OHM Meter*  
*(Absolute value display)*

# Model 1103

0.001m  $\Omega$  ~ 19.999k $\Omega$       Resolution 0.1 $\mu\Omega$   
Equipped RS-232C output as standard

- Measuring current changeover function (20m  $\Omega$  & 200m  $\Omega$  range)
- NULL measurement function
- 16 kinds signal display of Contact Error
- Contact check function works at Before/After & during measurement
- Thermo Electro-motive force cancel & power save function (Current during measurement only)
- Measuring limit 0.001m  $\Omega$  ~ 19.999k $\Omega$
- Measuring range -00100 ~ 19999



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**RST ENGINEERING CO., LTD**

KYOTO JAPAN

# Full Contact Check function OHM Meter Model 1103

## 16 kinds Contact Error display

Can easy confirm error point at measured value display position and on RS-232C data, forward error point output (Refer right List)

## Measuring current change function

Can cut off current as 1/2 to measuring object (20mΩ,200mΩ range)

## NULL measuring function

Regarding just measured value as 0Ω,changed value from 0Ω can display as measured value

## Full Contact Check function

Twice check at before, after & during measurement.

Thus can be kept high reliability by 4 terminal system measurement.

(C.E.R.at contact resistance over 30Ω)

## ☆ Measuring limit

0.001mΩ ~ 19.999kΩ

## ☆ Display limit

-00100 ~ 19999

## ☆ Judged value setting limit

-00100 ~ 19999

## ☆ Measurement system

4 terminals measurement

## ☆ NULL setting limit

Max. 900 digit

## ☆ Changeover measuring current

20mΩ range 100mA/200mA

200mΩ range 50mA/100mA

## ☆ Thermo Electro-motive force cancell function

Error code	contact check error point			
	After contact check		Below contact check	
	L terminal	H terminal	L terminal	H terminal
CE 1				*
2			*	*
3			*	*
4		*		
5		*		*
6		*	*	*
7		*	*	*
8	*			
9	*			*
A	*		*	*
B	*		*	*
C	*	*		
d	*	*	*	*
E	*	*	*	*
F	*	*	*	*

## ● Standard function RS-232C

### Specification

#### ■ Measuring limit Accuracy (Accuracy is the figures at temp.23°C ± 5°C)

Measuring Range	Display limit	Measuring current	Accuracy	
			SLOW	FAST
20mΩ	-0.100mΩ ~ 19.999mΩ	200mA(H.PW)	within ±0.01% rdg ±4digit	within ±0.01% rdg ±5digit
		100mA(L.PW)	within ±0.02% rdg ±4digit	within ±0.02% rdg ±5digit
200mΩ	-1.00mΩ ~ 199.99mΩ	100mA(H.PW)	within ±0.01% rdg ±2digit	within ±0.01% rdg ±3digit
		50mA(L.PW)	within ±0.02% rdg ±2digit	within ±0.02% rdg ±3digit
2 Ω	-0.0100 Ω ~ 1.9999 Ω	50mA	within ±0.01% rdg ±2digit	within ±0.01% rdg ±3digit
20 Ω	-0.100 Ω ~ 19.999 Ω	10mA		
200 Ω	-1.00 Ω ~ 199.99 Ω	10mA		
2kΩ	-0.0100kΩ ~ 1.9999kΩ	1mA		
20kΩ	-0.100kΩ ~ 19.999kΩ	100μA		

※ H.PW : High power L. PW : Low power

※ Accuracy at FAST is the value for which measuring object is shielded perfectly

※ Measuring conditions :Single core cable, cable length approx. 1 meter, measuring works are all initial setting status (Thermo electro-motive force cancellation operation)

#### ■ Measuring system 4 terminals measurement

#### ■ Measuring time

Power Frequency	Remote Start		Free Running
	FAST	SLOW	SLOW/FAST
60Hz	Approx. 5msec	Approx. 18msec	5 per sec
50Hz	Approx. 5msec	Approx. 21.5msec	5 per sec

(The FAST measurement includes the contact check operation before and after.)

#### ■ Judge value setting limit

-00100 ~ 19999

#### ■ Input/Output signal

input signal = START.HOLD

output signal = HI/GO/LO ( judged result ). C.E FTC.E ( Contact Error )

EOC ( End of measurement )

#### ■ Ambient condition

Temp.: 0 °C ~ 50 °C Humidity : below 85 %

#### ■ Dimensions

330(W) × 99(H) × 300(D) mm (excluding protruding parts such as handle, legs, etc.)

#### ■ Power supply

AC 100v/117v/220v/240v (changeover), 50/60 Hz、 Approx. 30VA

#### ■ Weight

Approx. 6kg

※ Subject to change specifications for improvement without notice.



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