

A new face in the resistance meter series of Tsuruga Electric  
Compact body equipped with a real function

**TSURUGA**

## DC Ohm meter 356G



Measurement current 1 A

Minimum resolution 0.1  $\mu\Omega$  (30m $\Omega$  range)

## Measure the low resistance by DC 4 terminals with high accuracy

In 356G, the measurement of the minimum resolution 0.1  $\mu\Omega$  with the measured current DC1A is possible and is equipped with temperature correction function, data output, comparator function etc. Equipped with comparator function etc. Due to DC4 terminals, it is suitable for DC resistance measurement of winding resistance of motor and transformer, relay, switch, resistance meter, harness, fuse, electrical components etc. It is a low resistance meter with small size and low cost.

- Measurement current 1 A  
Resolution 0.1  $\mu\Omega$
- Resistance measurement 5 ranges  
30m $\Omega$ /300m $\Omega$ /3 $\Omega$ /30 $\Omega$ /300 $\Omega$
- BlueBack-LCD with good visibility is used
- With program memory function of 30 patterns
- Equipped with RS-232C output
- With average calculation function of the measured value

## Model

356G- □- □  
1 2

### ① Data output

Symbol	Specifications
×	None
03	With BCD data output (TTL level)
04	With BCD data output (Open collector)
06	With RS-485

### ② Option

Symbol	Specifications
×	None
03	With analog output (DC 0V to 3V)

## Measurement range

Resistance	Sampling period: SLOW, MEDIUM <sup>**2</sup> (max display 6 digits)					Sampling period: FAST (max display 5 digits)				
	30mΩ	300mΩ	3Ω	30Ω	300Ω	30mΩ	300mΩ	3Ω	30Ω	300Ω
Range	30mΩ	300mΩ	3Ω	30Ω	300Ω	30mΩ	300mΩ	3Ω	30Ω	300Ω
Resolution	0.1μΩ	1μΩ	10μΩ	100μΩ	1mΩ	1μΩ	10μΩ	100μΩ	1mΩ	10mΩ
Current	DC1A		DC100mA		DC10mA	DC1A		DC100mA		DC10mA
Max volt	30mV	300mV		3V		30mV	300mV		3V	
Accuracy <sup>*1</sup>	±(0.1% of rdg.+10digit)		±(0.08% of rdg.+8digit)			±(0.2% of rdg.+8digit)				
Temp coeff.	±(0.01% of rdg.+0.5digit)/°C					±(0.02% of rdg.+0.5digit)/°C				
Open terminal volt	DC6V Max.					DC6V Max.				

\*1 Accuracy: 23°C ± 5°C, Defined by 45~75%RH    \*\*2 During MEDIUM add ±3digits to accuracy    \* Sampling period: SLOW 5 times/s, MEDIUM 20 times/s, FAST 80 times/s

Temp	Specifications
Range	-19.9~199.9°C
Resolution	0.1°C
Current	About 1mA
Accuracy	±(0.2% of rdg.+0.2°C)
Temp. coeff	±(0.02% of rdg.+0.02°C)/°C
Sensor	Pt100Ω 3-wire (sensor 5803-11)

\* Sampling period: 5 times/s

## Standard features

### ● Temperature correction function

The conductor resistance and the surrounding temperature is measured and displays the correction to the resistance value during the optional correction temperature.

### ● Ratio display function

Comparing the measured resistance value Rx and standard resistance value Rs, the ratio of the deviation corresponding to standard resistance value is displayed in the fraction of 100.

### ● Comparator function

Comparing the display value and the upper and lower limit set value and making a good or bad judgment, the output is done through HI/GO/LO lamp display, buzzer sound and open collector.

### ● Zero adjustment function

Stores a zero set value and displays by subtracting the zero set value from the subsequent measurement values.

### ● Start delay function

After a pre-set time (maximum 10 s) has elapsed, the measurement is started.

### ● Average function

Measurement data upto maximum 100 nos. is calculated in average and displayed.

### ● Offset voltage correction function

An automatic correction of offset voltage of thermoelectric power and measurement unit is done.

### ● Fault detection system

If detects a fault measurement and outputs an error signal (ERR).

### ● Program memory function

30 patterns of measurement functions, resistance range, the upper and lower limit set value are stored in the memory.

## Data output/interface

Stand equip. : RS-232C, USB

Option : RS-485, BCD, analog

## General specifications

Method : DC 4 terminals method

Max allowable V : All range 50V DC

Cable resistance : Below 2Ω (DC1A current)

Display : BlueBack-LCD display

Max display : 350000

Over display : OVER

Unit display : mΩ, Ω, %, °C

Response : SLOW : About 500ms

MEDIUM : About 100ms

FAST : About 30ms

Parameter saving : Parameters saved on Memory

Insulation res. : Terminals/ Outer box DC0500V Over 100MΩ

Withstand V : Terminals/Outer box AC 500V 1 minute

Power / Outer box AC1500V 1 minute

Terminals/Output AC0500V 1 minute

Power supply : AC100 to 240V 50/60Hz

Power consumption : Approx. 24VA (AC100V)

Weight : About 2.8kg

Dimensions : 205(W)×65(H)×300(D) mm  
(Not including protrusions)

Accessories : Power cord 1 pc.

Fuse 1 pc.

Control connectors 1 no.

User's manual 1 no.

Accessories : Kelvin clip (5811-21B)

(sold separately) Temp sensor (5803-11)

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