

# Mastech M9704 Dual Display 29-Range 2-in-1 Analog Multimeter with Digital Readout

<b>DC Voltage</b>
-------------------

Danga	Resolution	Digital Display	Analogue Gauge		
Kalige		Accuracy	Accuracy	Read	
200 mV	0.1 mV	± (0.5 % of rng +1 digit)	± 5 % fs	Reading of black scale × 1 mV	
2 V	1 mV	± (0.5 % of rng +1 digit)	± 5 % fs	Reading of black scale × 0.01 V	
20 V	10 mV	± (0.5 % of rng +1 digit)	± 5 % fs	Reading of black scale × 0.1 V	
200 V	100 mV	± (0.5 % of rng +1 digit)	± 5 % fs	Reading of black scale × 1 V	
600 V	1 V	± (0.8 % of rng +2 digit)	± 5 % of arc	Reading of black scale × 10 V	

Input impedance:  $10 \text{ M}\Omega$ Overload Protection: 200 mV range 250 V DC or rms AC 2 V - 600 V DC or 600 V rms AC (sine)

#### **AC Voltage**

Dango	Decolution	Digital Display	Analogue Gauge		
Kalige	Resolution	Accuracy	Accuracy	Read	
200 mV	0.1 mV	± (1.2 % of rng +3 digits)	± 5 % fs	Reading of black scale × 1 mV	
2 V	1 mV	± (0.8 % of rng +3 digits)	± 5 % fs	Reading of black scale × 0.01 V	
20 V	10 mV	± (0.8 % of rng +3 digits)	± 5 % fs	Reading of black scale × 0.1 V	
200 V	100 mV	± (0.8 % of rng +3 digits)	± 5 % fs	Reading of black scale × 1 V	
600 V	1 V	± (1.2 % of rng +3 digits)	± 5 % of arc	Reading of black scale × 10 V	

Input impedance: 10 MΩ Overload Protection: 200 mV range 250 V DC or rms AC 2 V – 600 V DC or 600 V rms AC (sine) Frequency range: 40 to 400 Hz Test On 60 Hz/50 Hz Response: Avernge calibrated in rms of sine wave

### DC Curren

rrent	Danga	Decolution	Digital Display		Analogue Gauge
	Range	Resolution	Accuracy	Accuracy	Read
	2 mA	1 μΑ	± (0.8 % of rng +1 digit)	± 5 % fs	Reading of black scale × 0.01 mA
	20 mA	10 µA	± (0.8 % of rng +1 digit)	± 5 % fs	Reading of black scale × 0.1 mA
	200 mA	100 µA	± (1.5 % of rng +1 digit)	± 5 % fs	Reading of black scale × 1 mA

Overload Protection: F 200 mA/ 250 V fuse Voltage Drop: 200 mV  $\,$ 

#### AC Current

: [	Dango	Decolution	Digital Display		Analogue Gauge
	Kallge	Resolution	Accuracy	Accuracy	Read
	2 mA	1 μΑ	± (1 % of rng +1 digit)	± 5 % fs	Reading of black scale × 0.01 mA
	20 mA	10 µA	± (1 % of rng +1 digit)	± 5 % fs	Reading of black scale × 0.1 mA
	200 mA	100 µA	± (1.8 % of rng +1 digit)	± 5 % fs	Reading of black scale × 1 mA

Overload Protection: F 200 mA/ 250 V fuse Voltage Drop: 200 mV Frequency range: 40 to 400 Hz Test On 60 Hz/50 Hz Response: Avernge calibrated in rms of sine wave

Resistance	
------------	--

Danga	Decolution	Digital Display Assurage	Analogue Gauge		
Kange	kange kesolution Digital Display Accuracy		Accuracy	Read	
200 Ω	0.1 Ω	± (0.8 % of rng +3 digit)	± 5 % arc	Reading of red scale × 1 $\Omega$	
2 kΩ	1 Ω	± (0.8 % of rng +1 digit)	± 5 % arc	Reading of red scale × 0.01 k $\Omega$	
20 kΩ	10 Ω	± (0.8 % of rng +1 digit)	± 5 % arc	Reading of red scale × 0.1 k $\Omega$	
200 kΩ	100 Ω	± (0.8 % of rng +1 digit)	± 5 % arc	Reading of red scale × 1 k $\Omega$	
2 MΩ	1 kΩ	± (0.8 % of rng +1 digit)	± 5 % arc	Reading of red scale $\times$ 0.01 M $\Omega$	
20 MΩ	10 kΩ	± (1.0 % of rng +2 digit)	± 5 % arc	Reading of red scale × 0.1 M $\Omega$	

Open Circuit Voltage: 1.2 V Overload Protection: 250 V DC or rms AC

## Capacitance

е	Dango	Pocolution	Digital Display	Analogue Gauge		
	Kalige	Resolution	Accuracy	Accuracy	Read	
	2 nF	1 pF	± (4 % of rng +3 digit)	± 6 % arc	Reading of black scale × 0.01 nF	
	20 nF	10 pF	± (4 % of rng +3 digit)	± 6 % arc	Reading of black scale × 0.1 nF	
	200 nF	0.1 pF	± (4 % of rng +3 digit)	± 6 % arc	Reading of black scale × 1 nF	
	2 µF	1 nF	± (4 % of rng +3 digit)	± 6 % arc	Reading of black scale $\times$ 0.01 $\mu$ F	
	20 µF	10 nF	± (4 % of rng +3 digit)	±6% arc	Reading of black scale $\times$ 0.1 $\mu$ F	

Frequency	Dongo	Decolution	Digital Display		Analogue Gauge
	Kange	e Resolution	Accuracy	Accuracy	Read
	20 kHz	10 Hz	± (1.5 % of rng +5 digit)	± 5 % fs	Reading of black scale × 0.1 kHz

## Temperature

e	Dango	Decolution	Digital Display		Analogue Gauge
	Kalige	Resolution	Accuracy	Accuracy	Read
	- 20 °C to	1 °C	- 20 °C to 0 °C	± 6 % arc	Reading of black °C scale × 1 °C
	1000 °C		± (4 % of rng +4 digit)		
			0 °C to 400 °C		
			± (2 % of rng +3 digit)		
			400 °C to 1000 °C		
			± (1 % of rng +3 digit)		

Diode	Resolution	<b>Test Current</b>	<b>Digital Display</b>	Analogue Gauge Read
	1 mV	1 mA		Reading of black scale × 0.01 V

Open Circuit Voltage: 2.8 V

Continuity	Function	Built-in buzzer will sound, if resistance is lower than 70 $\Omega$

<b>Fransistor h</b> <sub>FE</sub>	Range	Base Current	Vce	Digital Display	Analogue Gauge Read
	1 to 1000 β	10 µA	2.8 V		Reading of black scale × 0.01 V