

Digital Multimeter

8302



◆ FEATURE

- Bench type Digital Multimeter with 4 1/2 digit (LED)display.
- Basic accuracy for DCV ; 0.05 %
- Overload protection on all range
- AC/DC Voltage measurement (Up to DC1000V, AC750V)
- AC/DC Current measurement (Up to 10A)
- Resistance measurement (Up to 20Mohm)
- Frequency Measurement (Up to 200kHz)
- Audible continuity test and Diode test

DAGATRONICS CORPORATION

263-1, DUCKIDONG, ILSAN, KOYANG, KYUNGKIDO, KOREA

TEL: +82-31-916-8005 FAX: +82-31-916-8080

E-mail: dagatron@dagatron.com Homepage: www.dagatron.com

◆ Technical Specification of 8302 Digital Multimeter

Function	Specification					
DC Voltage	Range	Resolution	Accuracy			Impedance
	2 V	100 μ V	$\pm(0.05\% + 5d)$			10 Mohm
	20 V	1 mV				
	200 V	10 mV				
1000 V	100 mV	$\pm(0.1\% + 5d)$				
AC Voltage	Range	Resolution	Accuracy			Impedance
	2 V	100 μ V	+/- (0.75% + 10d)			10 Mohm
	20 V	1 mV				
	200 V	10 mV				
750 V	100 mV					
DC Current	Range	Resolution	Accuracy			Over Load Protection
	2 mA	1 μ A	+/- (0.5% + 5d)			2A / 250V
	20 mA	10 μ A				
	200 mA	100 μ A				
	2000 mA	1 mA	+/- (0.75% + 5d)			
10 A	10 mA	+/- (1.0% + 10d)			10A / 250V	
AC Current	Range	Resolution	Accuracy			Over Load Protection
	2 mA	1 μ A	+/- (0.75% + 10d)			2A / 250V
	20 mA	10 μ A				
	200 mA	100 μ A				
	2000 m	1 mA	+/- (1.0% + 10d)			
10 A	10 mA				10A / 250V	
Resistance	Range	Resolution	Accuracy			Over Load Protection
	2 kohm	0.1 ohm	+/- (0.2% + 5d)			600 V DC or AC Peak
	20 kohm	1 ohm				
	200 kohm	10 ohm				
	2 Mohm	100 ohm	+/- (1% + 10d)			
20 Mohm	1 kohm					
Frequency	Range	Resolution	Accuracy			Over Load Protection
	20 kHz	1 Hz	+/- (1.0% + 5d)			600 V DC or AC peak
	200 kHz	10 Hz	+/- (2.0% + 5d)			
Continuity	Test Voltage; 2 V, Threshold; Less than 200 ohm, Over Load Protection; 600V DC or AC Peak					
Diode Test	Test Voltage; 2 V, Max. Test Current; Approx. 1 mA, Over Load Protection; 600V DC or AC Peak					
General	Power Requirement		115 or 230V AC +/- 10% , 48 to 60Hz			
	Dimension		240(W) X 280(D) X 90(H) mm			
	Weight		Approx. 2 kg			
	Standard Accessories		Test Lead, Instruction Manual, Power Cord			
Packing Details		Q'ty	Size (mm)	N.W. (kg)	G.W.(kg)	Remark
	Inner Packing	1	305(W)x330(D)x165(H)		2.5	
	Carton Packing	3	320(W)x560(D)x360(H)	7.5	8.5	

DAGATRONICS CORPORATION

263-1, DUCKIDONG, ILSAN, KOYANG, KYUNGKIDO, KOREA

TEL: +82-31-916-8005 FAX: +82-31-916-8080

E-mail: dagatron@dagatron.com Homepage: www.dagatron.com

Programmable D.M.M.

P M M 2 0 8



■ FEATURE

- Multi and large Display with 3 3/4 digit main display, two 9999 count subsidiary display and analog bar graph
- **RS-232C interface function** for communicating with Personal Computer
- **TRUE RMS AC Voltage Measurement**
- DC/AC Voltage & Current, Resistance, Frequency, Capacitance measurement
- **REC function** for displaying MIN. AVG. MAX. Simultaneously
- **Comparison function** for in-tolerance limits setting (**REL/REL % function**)
- **Menu-Driven operation** for edit & shift
- **Go/No-Go Limit value editing**
- Overload protection on all range
- Auto ranging and manual selection
- Auto power off to save power

DAGATRONICS CORPORATION

263-1, DUCKIDONG, ILSAN, KOYANG, KYUNGKIDO, KOREA
TEL: +82-31-916-8005 FAX: +82-31-916-8080

E-mail: dagatron@dagatron.com Homepage: www.dagatron.com

■ Technical Specification of PMM208 Programmable D.M.M.

Function	Specification					
DC Voltage	Range	Resolution	Accuracy			Impedance
	400 mV	100 uV	+/- (0.3% + 2d)			10 Mohm
	4 V	1 mV				
	40 V	10 mV				
	400 V	100 mV				
1000 V	1 V					
AC Voltage	Range	Resolution	Accuracy			Impedance
	4 V	1 mV	45Hz - 450Hz	450Hz - 5kHz	5kHz - 20kHz	10 Mohm
	40 V	10 mV	Unspec,d			
	400 V	100 mV	+/- (0.75% + 5d)	+/- (2% + 5d)	+/- (1% + 5d)	
	750 V	1 V				
DC Current	Range	Resolution	Accuracy			
	40 mA	10 uA	+/- (0.5% + 5d)			0.5A / 250V
	400 mA	100 uA				
	4 A	1 mA	+/- (0.75% + 5d)			10A / 250V
	10 A	10 mA				
AC Current	Range	Resolution	Accuracy			Over Load Protection
	40 mA	10 uA	+/- (0.75% + 5d)			0.5A / 250V
	400 mA	100 uA				
	4 A	1 mA	+/- (1.5% + 5d)			10A / 250V
	10 A	10 mA				
Resistance	Range	Resolution	Accuracy			Over Load Protection
	400 ohm	0.1 ohm	+/- (0.5% + 5d)			600 V DC or AC Peak
	4 kohm	1 ohm				
	40 kohm	10 ohm				
	400 kohm	100 ohm				
	4 Mohm	1 kohm	+/- (1% + 5d)			
40 Mohm	10 kohm					
Frequency	Range	Resolution	Accuracy			Over Load Protection
	200 Hz	0.01 Hz	+/- (0.05% + 2d)			600 V DC or AC peak
	2 kHz	0.1 Hz				
	20 kHz	1 Hz				
	200 kHz	10 Hz				
Capacitance	Range	Resolution	Accuracy			Over Load Protection
	400 nF	0.1 nF	+/- (3% + 5d)			600 V DC or AC Peak
	4 uF	0.001 uF				
	40 uF	0.01 uF				
Continuity	Test Voltage; 1.5 V, Threshold; Less than 100 ohm, Over Load Protection; 250V DC or AC Peak					
Diode Test	Test Voltage; 3.0 V , Max. Test Current; Approx. 1 mA, Over Load Protection; 250V DC or AC Peak					
HFE Test	Test Condition ; Base Current : 10 uA / V _{CE} : 3 V					
General	Power Requirement		9V 6F22 x 2			
	Dimension		90(W) X 190(D) X 32(H) mm			
	Weight		Approx. 750 g			
	Standard Accessories		Test Lead, Instruction Manual, RS-232C Software, RS-232C Cable			
	Optional Accessories		Rubber Holster			
Packing Details		Q'ty	Size (mm)	N.W. (kg)	G.W.(kg)	Remark
	Inner Packing	1	145(W)x220(D)x55(H)	-	0.8	
	Carton Packing	15	275(W)x530(D)x330(H)	12	14	

DAGATRONICS CORPORATION

263-1, DUCKIDONG, ILSAN, KOYANG, KYUNGKIDO, KOREA

TEL: +82-31-916-8005 FAX: +82-31-916-8080

E-mail: dagatron@dagatron.com Homepage: www.dagatron.com

DUAL DISPLAY D.M.M.

8566



◆ FEATURE

- 3 3/4 digit 4000count Multi and DUAL Display with Analog Bar graph display
- DC/AC Voltage & Current, Resistance, Frequency, Capacitance measurement
- Basic accuracy for DCV 0.1%
- Auto-ranging and manual selection
- Min/Max Hold, Measurement Hold Function (Auto-Hold)
- Relative Mode (Reference value difference and percentage)
- Diode / TR hFE test function
- Audible Continuity test
- Auto Power off

DAGATRONICS CORPORATION

263-1, DUCKIDONG, ILSAN, KOYANG, KYUNGKIDO, KOREA

TEL: +82-31-916-8005 FAX: +82-31-916-8080

E-mail: dagatron@dagatron.com Homepage: www.dagatron.com

◆ Technical Specification of 8566 Dual Display D.M.M.

Function	Specification					
DC Voltage	Range	Resolution	Accuracy			Impedance
	400 mV	100 uV	+/- (0.3% + 2d)			10 Mohm
	4 V	1 mV	+/- (0.1% + 2d)			
	40 V	10 mV				
	400 V	100 mV				
1000 V	1 V					
AC Voltage	Range	Resolution	Accuracy		Impedance	
			50Hz to 60Hz	45Hz to 400Hz	10 Mohm	
	4 V	1 mV	+/- (1%+ 5d)	+/- (2%+10d)		
	40 V	10 mV	+/- (0.5%+ 5d)			
	400 V	100 mV				
750 V	1 V					
DC Current	Range	Resolution	Accuracy		Over Load Protection	
	400 mA	100 uA	+/- (1% + 5d)		0.5A / 250V	
	10 A	10 mA	+/- (1.5% + 5d)		10A / 250V	
AC Current	Range	Resolution	Accuracy		Over Load Protection	
	400 mA	100 uA	+/- (1.5% + 5d)		0.5A / 250V	
	10 A	10 mA	+/- (2% + 5d)		10A / 250V	
Resistance	Range	Resolution	Accuracy		Over Load Protection	
	400 ohm	0.1 ohm	+/- (0.3% + 5d)		250 V DC or AC Peak	
	4 kohm	1 ohm	+/- (0.2% +3d)			
	40 kohm	10 ohm				
	400 kohm	100 ohm				
	4 Mohm	1 kohm	+/- (0.3% + 5d)			
40 Mohm	10 kohm	+/- (0.8% + 5d)				
Frequency	Range	Resolution	Accuracy		Over Load Protection	
	10-100 kHz	1-100 Hz	+/- (2% + 5d)		250 V DC or AC Peak	
	100-150 kHz	100 Hz	+/- (3% + 5d)			
	150-200 kHz	100 Hz	+/- (5% + 5d)			
Capacitance	Range	Resolution	Accuracy		Over Load Protection	
	4 nF – 40 uF	100 pF – 100 nF	+/- (3% + 5d)		250 V DC or AC Peak	
Continuity	Test Voltage; 1.5 V, Threshold; Less than 10ohm, Over Load Protection; 250V DC or AC Peak					
Diode Test	Test Voltage; 3.0 V , Max. Test Current; Approx. 1 mA, Over Load Protection; 250V DC or AC Peak					
HFE Test	Test Condition ; Base Current : 10 uA / V _{CE} : 3 V					
General	Power Requirement		9V 6F22 x 2			
	Dimension		90(W) X 190(D) X 32(H) mm			
	Weight		Approx. 750 g			
	Standard Accessories		Test Lead, Instruction Manual			
	Optional Accessories		Rubber Holster			
Packing Details		Q'ty	Size (mm)	N.W. (kg)	G.W.(kg)	Remark
	Inner Packing	1	145(W)x220(D)x55(H)	-	0.8	
	Carton Packing	15	275(W)x530(D)x330(H)	12	14	

DAGATRONICS CORPORATION

263-1, DUCKIDONG, ILSAN, KOYANG, KYUNGKIDO, KOREA

TEL: +82-31-916-8005 FAX: +82-31-916-8080

E-mail: dagatron@dagatron.com Homepage: www.dagatron.com

DIGITAL MULTIMETER

8588A



■ FEATURE

- 3 3/4 digit 4000count Multi and Large Display with Analog Bar graph display
- Basic accuracy for DCV 0.3%
- Auto-ranging
- Auto Power off
- DC/AC Voltage (DC 100V, AC750V) & Current (20A) measurement
- Resistance measurement (Up to 40Mohm)
- Frequency measurement (Up to 10MHz)
- Capacitance measurement (Up to 200uF)
- Duty measurement
- Diode / TR hFE test function
- Battery use: 1.5V AAA x 2

DAGATRONICS CORPORATION

263-1, DUCKIDONG, ILSAN, KOYANG, KYUNGKIDO, KOREA

TEL: +82-31-916-8005 FAX: +82-31-916-8080

E-mail: dagatron@dagatron.com Homepage: www.dagatron.com

■ Technical Specification of 8588A Digital Multimeter

Function	Specification					
DC Voltage	Range	Resolution	Accuracy			Impedance
	400 mV	100 μ V	+/- (0.3% + 2d)			10 Mohm
	4 V	1 mV				
	40 V	10 mV				
	400 V	100 mV	+/- (0.5% + 5d)			
	1000 V	1 V				
AC Voltage	Range	Resolution	Accuracy		Impedance	
	400 mV	100 μ V	45Hz to 450Hz	450Hz to 1kHz	10 Mohm	
			+/- (1.2%+10d)	Unspec,d		
	4 V	1 mV	+/- (0.5%+ 8d)	+/- (1.2%+10d)		
	40 V	10 mV				
	400 V	100 mV		Unspec,d		
750 V	1 V					
DC Current	Range	Resolution	Accuracy			Over Load Protection
	400 μ A	100 nA	+/- (0.5% + 5d)			0.5A / 250V F Fuse
	4000 μ A	1 μ A	+/- (1.2% + 5d)			
	40 mA	10 μ A	+/- (0.5% + 5d)			
	400 mA	100 μ A	+/- (1.2% + 5d)			15A / 250V T Fuse
	20 A	10 mA				
AC Current	Range	Resolution	Accuracy		Over Load Protection	
	400 μ A	100 nA	45Hz to 450Hz	450Hz to 1kHz	0.5A / 250V F Fuse	
			+/- (0.75%+ 8d)	Unspec,d		
	4000 μ A	1 μ A	+/- (1.2% + 8d)			+/- (2%+10d)
	40 mA	10 μ A	+/- (0.75%+10d)			
	400 mA	100 μ A	+/- (1.2% + 8d)			
20 A	10 mA	+/- (0.75%+ 8d)				
Resistance	Range	Resolution	Accuracy			Over Load Protection
	400 ohm	0.1 ohm	+/- (0.5% + 5d)			250 V DC or AC Peak
	4 kohm	1 ohm				
	40 kohm	10 ohm				
	400 kohm	100 ohm				
	4 Mohm	1 kohm	+/- (1% + 10d)			
40 Mohm	10 kohm					
Frequency	Range	Resolution	Accuracy			Over Load Protection
	10/100 Hz	0.001/0.01 Hz	+/- (0.05% + 2d)			400 V DC or AC Peak
	1/10/100 kHz	1/10/100 Hz				
	10 MHz	1 kHz				
Capacitance	Range	Resolution	Accuracy			Over Load Protection
	4 nF	0.001 nF	+/- (3% + 5d)			250 V DC or AC Peak
	40/400 nF	0.01/0.1 nF				
	4/40/200 μ F	0.001/0.01/0.1 μ F				
Continuity	Test Voltage; 1.5 V, Threshold; Less than 100ohm, Over Load Protection; 250V DC or AC Peak					
Diode Test	Test Voltage; 1.5 V , Max. Test Current; Approx. 0.5 mA, Over Load Protection; 250V DC or AC Peak					
hFE Test	Test Condition ; Base Current : 6.4 μ A / V_{CE} : 1.5 V					
General	Power Requirement		1.5 V AAA x 2			
	Dimension		90(W) X 190(D) X 32(H) mm			
	Weight		Approx. 750 g			
	Standard Accessories		Test Lead, Instruction Manual			
	Optional Accessories		Rubber Holster			
Packing Details		Q'ty	Size (mm)	N.W. (kg)	G.W.(kg)	Remark
	Inner Packing	1	145(W)x220(D)x55(H)	-	0.8	
	Carton Packing	15	275(W)x530(D)x330(H)	12	14	

DAGATRONICS CORPORATION

263-1, DUCKIDONG, ILSAN, KOYANG, KYUNGKIDO, KOREA

TEL: +82-31-916-8005 FAX: +82-31-916-8080

E-mail: dagatron@dagatron.com Homepage: www.dagatron.com