

# TENMA<sup>®</sup>

Test and Measurement  
Equipment



## New Product Guide



**72-7855**  
**[Stk. No. 01J2674]**

## Electronic DC Load, 80 Amps, 80 Volts, 300 Watts

- Versatile Solution for Testing DC Power sources
- Constant Current, Resistance, Conductance, Voltage and Power Modes
- Wide Voltage and Current Range, 0 to 80V and 0 to 80A
- 300 Watts Continuous Dissipation At 40°C
- Low Minimum Operating Voltage of Below 1V at 40A
- Built-in Transient Generator With Variable Slew
- Current Monitor Output for Waveform Viewing
- Variable Drop-out Voltage for Battery Testing



Type **72-7855** compact electronic DC load is ideal for testing a wide variety of DC power sources. It can be used to investigate the behavior of many different types of power sources such as batteries, solar cells, fuel cells, as well as electronic power supply units. Type **72-7855** can operate at voltages below 500 mV for currents up to 10A. This low operating voltage allows it to be used for many low voltage applications. Includes power lead and instruction manual.

SPECIFICATIONS	
<b>RATINGS</b>	
<b>Voltage and Current:</b>	80V Maximum, 80A Maximum
<b>Power Dissipation</b>	320 Watts Maximum Continuous @ 28°C Derating to 300 Watts Continuous @ 40°C
<b>Min. Operating Volts:</b>	Increases with Current, <0.5V @ 10A, <1V @ 40A, <2V @ 80A
<b>GENERAL</b>	
<b>Rear Terminals:</b>	Input via 6mm Terminal/Binding Posts. Remote Sense, Current Monitor, Remote Control via Terminal Block
<b>Front Terminals:</b>	Input via 4mm Terminal/Binding Posts (30A Max.)
	Current Monitor via 4mm Sockets
<b>Size:</b>	130 (H) x 212 (W) x 435 (D) mm, (3U x Half Rack)
<b>Weight:</b>	6kg
<b>Power Requirements:</b>	110 / 120V ±10% 50/60Hz

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**1-800-4-NEWARK (1-800-463-9275)**



**72-7860**  
**[Stk. No. 01J2675]**

## 2GHz SYNTHESIZED RF GENERATOR

- 150kHz to 2000MHz frequency range
- 10Hz setability,  $\pm 1$ ppm frequency stability
- Locking to external frequency standard
- -127dBm to +7dBm amplitude, 0.1dB steps
- AM, FM and Phase modulation, internal or external
- 80 character back-lit LCD display
- Keyboard and rotary encoder control
- Non-volatile storage for 9 generator set-ups
- Full remote control through RS232 and GPIB (63488)



Type 72-7860 synthesized RF signal generator incorporates the essential features required for most development, test and service work; namely high frequency accuracy and stability, wide dynamic range, low phase noise and leakage, and flexible modulation capabilities. Type 72-7860 has a wide frequency range 150kHz up to 2GHz and incorporates AM, FM and Phase modulation (internal and external). The instrument can be operated using either the numeric or rotary controls, and can be remotely controlled via either and RS-232 interface or GPIB interface. Nine memories are provided for user set-ups. Includes mains lead and instruction manual.

SPECIFICATIONS	
Frequency range	150kHz to 2000MHz
Setting Resolution	10Hz by direct keyboard entry, or in user-set-increments of 10Hz to 999.99999MHz
Display Resolution	10Hz
Phase Noise	-116dBc/Hz at 25kHz offset, 500MHz carrier
Residual FM (FM Off)	Equivalent peak deviation in a 300Hz to 3.4Hz bandwidth: 12Hz at 500MHz carrier
GENERAL	
Display	20 Character x 4 row Backlit Alphanumeric LCD
Data Entry	Keyboard Selection of Frequency, Amplitude, etc., value entry direct by numeric keys or rotary control
Stored Settings	Up to 9 complete instrument set-ups may be stored and recalled from battery-backup memory
MECHANICAL	
Size	130mm(3U)H; 212mm (half-rack)W; 330mmD
Weight	4.6kg [10 lbs]
Power	100 or 110VAC $\pm 10\%$ , 50/60Hz

**Dedicated Technical Support**  
**1-888-SPC-TECH (1-888-772-8324)**





72-7595

[Stk. No. 01J3056]

**4-IN-1 ANEMOMETER, HYGROMETER, LUXMETER AND THERMOMETER**



- Pocket Size Ergonomic 4-in-1 Meter
- Large Dual LCD
- Low-Friction Ball-Bearing Vane Wheel Improves Air Velocity Accuracy
- Simultaneously Displays Temperature and Air Velocity or Relative Humidity
- Type K Input for High Temperature Measurements to 2372°F (1300°C)
- Optional Type K Thermocouple Bead Probe (Type 72-2061)
- Selectable °C or °F For Temperature, Lux or Feet- Candle for Light Meter
- Data Hold, Recod (Min./Max.)

SPECIFICATIONS			
Measurement	Range	Resolution	Accuracy
Relative Humidity	10.0 to 95 RH%	0.10%	<70%RH: ±4%RH
			≥70%RH: ±(4% of rdg + 1.2%RH)
Temperature/Thermistor	32 to 122°F (-0 to 50°C)	0.1°F/°C	±2.5°F (± 1.2°C)
Temperature/Thermocouple (Type K)	-148 to 2372°F (-100 to 1300°C)	0.1°F (0.1°C)	± 1% + 2°F ± (1% + 1°C)
MPH (Miles Per Hour)	0.9 to 67.0 MPH	0.1MPH	≤20ms: ±3% F.S
			>20m/s: ±4% F.S
km/hr (Kilometers Per Hour)	1.4 to 108.0 km/h	0.1km/h	≤20ms: ±3% F.S
			>20m/s: ±4% F.S
Knots (Nautical Miles Per Hour)	0.8 to 58.3 knots	0.1knots	≤20ms: ±3% F.S
			>20m/s: ±4% F.S
m/sec (Meters Per Second)	0.40 to 30.0 m/s	0.01 ms	≤20ms: ±3% F.S
			>20m/s: ±4% F.S
ft/min (Feet Per minute)	80 to 5910 ft/min	1ft/min	≤20ms: ±3% F.S
			>20m/s: ±4% F.S

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**72-7601**  
**[Stk. No. 01J3057]**

## DIGITAL STROBOSCOPE



- Ideal for checking and analyzing motion and speed
- Adjustable Range 20 - 10,500 RPM
- 14mm 5 digit LED display
- Fast find function
- Coarse and Fine adjust via keypad
- Memory (10 locations)
- External trigger and signal input for simultaneous testing and measurement
- Xenon flash tube
- RS-232 computer interface
- Optional RS-232 software (72-6701A) and cable (72-6704)

Type 72-7601 is ideal for measuring the speed of moving gears, fans, pumps, motors and other equipment used in general maintenance, production, quality control laboratories, schools and colleges. The fast find function allows the user to step through pre-programmed value settings when the RPM value is not known. Made from impact resistant plastic with plastic lens and mirrored reflectors.

SPECIFICATIONS	
Type	Description
Display	14mm (0.56") LED, 5 digits
Flash Rate RPM	5~12,500 RPM
Flash rate HZ	0.083 TO 208Hz
RPM Resolution/Range	0.1 RPM = 5 to 999.9 RPM
	1 RPM = 1,000 to 9,999 RPM
	10 RPM = 10,000 to 12,500 RPM
Frequency Resolution/Range	0.001Hz = <10Hz
	0.01Hz = 10Hz to 99.99Hz
	0.1Hz = 100Hz to 208Hz
Power Supply	110V AC $\pm$ 10% 50/60Hz
Weight	2.2 lbs
Dimension	8.3" x 4.8" x 4.8" (210 x 120 x 120mm)

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**72-7606**  
**[Stk. No. 01J3058]**

## DIGITAL TORQUE WRENCH

- Die-cast housing
- Ergonomic and light weight, yet ruggedly constructed
- Range: 100kg-cm, 980 Newton-cm
- Units: kg-cm, lb-inch and Newton-cm
- Data hold, Peak hold
- High/low resolution selection
- Fast/slow sampling selection
- RS-232 computer interface
- Auto shut-off after 10 min. of non-use
- Optional RS-232 software and cable
- 1/4" Drive



Type 72-7606 is an extremely lightweight digital torque wrench. It loosens or tightens bolts up to 86.6lb-inch. Type 72-7606 helps to reduce scrap and rework costs by eliminating over-and-under-tightening. It is ideal for use in a wide variety of applications including the manufacture of electronic appliances. Includes soft carrying case, instruction manual and one 9V battery (notsupplied). Power consumption approximately 13mA.

Type	Description	Stock No.
72-7606	Professional Digital Torque Wrench	01J3058
<b>Accessories</b>		
72-6701A	RS-232 Software	94H7485
72-6704	RS-232 Cable	18C2268

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# TENMA®

**72-6785A**  
**[Stk. No. 01J3094]**

## TEMPERATURE HUMIDITY METER

- Dual Display Shows Humidity and Temperature Values at the Same Time
- Lightweight and Compact
- Large, Easy-to-Read Display
- Built-In °C and °F Selection on Front Panel
- Records: Max./Min./Ave.
- Data Hold
- Temperature Range: 32°F to 122°F (0°C to 50°C)
- Humidity Range: 10% to 95% RH



Wide measurement range of both RH and temperature. Humidity measurement uses a high precision thin-film capacitance sensor for fast response. Thermistor sensor for fast response temperature measurement. Includes instruction manual and probe. Requires 9V battery (not included).

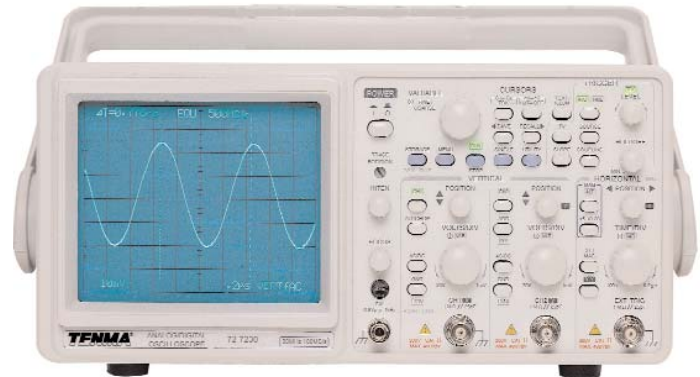
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**72-6785A**  
**[Stk. No. 01J3094]**

## 50MHz ANALOG/DIGITAL OSCILLOSCOPE

- Digital Mode 20 MSa/s, 2K/ch
- Equivalent Time Sampling of 500MS/s Max.
- Pre-Trigger Function 0 to 10 DIV
- Cursor Readout .V, .T, 1/. T
- Roll Mode to 100S/DIV
- Panel Setting Save/Recall 10 Sets
- Averaging Function (2 to 256)
- Smoothing Function ON/OFF
- ALT-MAG Function (x5, x10, x20)
- Vertical Mode Triggering
- TV Synchronization
- CH1 Signal Output and Z-Axis Input
- Max. Sweep Rate 10ns/DIV
- Waveform Save/Recall 10 Sets
- RS-232C Interface



Type 72-7230 oscilloscope offers a combination of analog and digital acquisition modes. Giving you the best of both worlds. Select analog mode when true real-time acquisition is needed and digital mode when pre-trigger events need to be seen. Select save and recall waveforms or freeze transients that are impossible to see with an analog-only scope.

SPECIFICATIONS		
CRT	Type and Acceleration	6" CRT 150CTB31, 10kV
	INTEN, FOCUS, ILLUM	Front Panel Control
VERTICAL SYSTEM	Frequency Bandwidth (-3dB)	1mV~20mV/DIV: DC~7MHz 5mV~20V/DIV: DC~50MHz
	Input Voltage	Max. 400V(DC+ACpk)
TRIGGER	Trigger Mode	AUTO, NORM, TV
	Trigger Source	VERT, CH1, CH2, LINE, EXT
DIGITAL STORAGE	Acquisition Digitizer	8 Bit ADC x 2
	Max. Sampling Rate	500MSa/s for Equivalent Time Sampling 20MSa/s for Normal Sampling
	Storage Bandwidth	Single Shot: DC ~ 5MHz Repetitive: DC ~ 50MHz
	Operation Mode	Auto, Norm, Single, Single-Roll, Roll, X-Y
	Storage Bandwidth	DC~50MHz(-3dB)
POWER SOURCE	AC 100V/120V/230V + or - 10%, 50/60Hz	
ACCESSORIES	Power Cord, Instruction Manual, 2 Probes (10:1/1:1)	
DIMENSIONS	275mmW x 130mmH x 360mmD	
WEIGHT	Approximately 8.5kg	

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**72-7675**  
**[Stk. No. 96H1234]**

## AC POWER SOURCE

### Features:

- Wide Range Variable Output Voltage/Frequency
- 4 Sets of "Save/Recall" Voltage/Frequency Memory
- Output Enable and Disable
- Stable and Low-Distortion Output Waveforms
- Software Calibration to Ensure Accuracy
- Panel-Lock Function to Prevent Accidental Wrong-Operation
- Over Current Protection and Over Temperature Protection
- Frequency, Voltage, Amps, Watts and Power Factor Display



Type 72-7675 AC power source is ideal for use in applications that require variable voltage and frequency at power levels up to 500 VA. Simple front panel knobs allow the user to set voltage, frequency and current limit.

SPECIFICATIONS:	
Output Capacity	500 VA
Output Voltage	110, 220 V selectable
Output Current	0~150 V, 4.2 A, 0~300 V, 2.1 A
Frequency	45.0 ~ 500 Hz, (50/60 Hz selectable) .1 Hz per step (45 ~ 100 Hz), 1 Hz per step (100 ~ 500 Hz)
Waveform	Sine Wave $\leq 0.5\%$ THD (resistance load)
Line Voltage Regulation	$\pm 0.1\%$
Load Regulation	$\pm 0.5\% + 0.1 V$
Measurements	
Frequency Counter	Range: 0 ~ 999.9 Hz, Resolution: 0.1 Hz, Accuracy $\pm 0.1$ Hz
RMS Volt Meter	Range: 0 ~ 380.0 V, Resolution: 0.1 V, Accuracy $\pm (1\%rdg + 0.1 V)$
RMS Amp Meter	Range: 0 ~ 2.0 A, Resolution: 1.0 mA, Accuracy $\pm (1\%rdg + 5 mA)$
	Range: 1.8 ~ 35.0 A, Resolution: 0.01 A, Accuracy $\pm (1\%rdg + 20 mA)$
Wattage Meter	Range: 0 ~ 360.0 W, Resolution: 0.1 W, Accuracy $\pm (1.5\%rdg + 0.5 W)$
	Range: 320 ~ 350.0 W, Resolution: 1 W, Accuracy $\pm (1.5\%rdg + 1 W)$
Power Factor Meter	Range: 0 ~ 1.000, Resolution: 0.001, Accuracy $\pm (2.0\%rdg + 0.002)$
Power Source	115/230 V $\pm 15\%$ 47~ 63 Hz Single phase

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**72-7680**  
**[Stk. No. 96H1235]**

## DC ELECTRONIC LOAD

**Features:**

- **Maximum power: 300 W**
- **Over voltage, over current and over power protection**
- **Current range: 6mA ~ 60A**
- **Voltage range: 3 ~ 60V DC**
- **Store up to 100 setups in non-volatile memory**
- **Dynamic operation (CC mode only)**
- **Easy-to-operate and user friendly panel**
- **3 operating modes: constant voltage(CV), constant current (CC), constant resistance(CR)**



Type 72-7680 programmable DC load covers a wide variety of voltage, current and power inputs. Applications include the burn-in of new devices, power test requirements, dynamic load simulation, fuel cell and generator testing and the manufacture of photovoltaic element manufacturing.

SPECIFICATIONS:			
<b>Rating</b>	Operating Limits	Voltage	DC 3 ~ 60 V
		Current	6 mA ~ 6 A
		Power	1 ~ 300 W
<b>CV Mode</b>	Operating Range		DC 3 ~ 60 V
	Setting Accuracy		± (0.1% + 40 mV)
	Setting Resolution		20mV
<b>CC Mode</b>	Operating Range		6 mA ~ 60 A
	Setting Accuracy		6.02 A ~ 60 A, ± (0.5% + 100 mA)
			0.602 A ~ 6 A, ± (0.1% + 10 mA)
	Setting Resolution		6 mA ~ 0.6 A, ± (0.1% + 1 mA)
			6.02 A ~ 60 A, 20 mA
0.602 A ~ 6 A, 2 mA			
<b>Dynamic Status</b>	Frequency	Range	1 Hz ~ 1 kHz
		Resolution	105 Hz ~ 1 kHz Range 5 Hz
			1005 Hz ~ 100 Hz Range 0.5 Hz
	Duty	Range	1 Hz ~ 10 Hz Range 0.05 Hz
		Resolution	10% ~ 90%
<b>CR Mode</b>	Operating Range		50 mΩ ~ 1 kΩ
	Setting Accuracy		100.33 Ω ~ 1 kΩ ± (5% + 1 Ω)
			100.033Ω ~ 100Ω, ± (5% +100 mΩ)
	Setting Resolution		50 mΩ ~ 1Ω, ± (5% + 1 mΩ)
			100.33 Ω ~ 1 kΩ, 330 mΩ
10.033Ω ~ 100Ω, 33 mΩ			
<b>Timer</b>	Range		1 sec. ~ 999 min. 59 sec.
	Resolution		1 sec.
	<b>Power Source</b> AC 100V/120V/220V/240V ±10%; 50/60 Hz		
<b>Accessories</b> Power cord and instruction manual			
<b>Dimensions</b> 255 W x 145 H x 346 mm D			
<b>Weight</b> 9 Kg			



## SWITCHING MODE POWER SUPPLIES

### Features:

- Compact and lightweight 360W of power
- Two digital meters (voltage and current)
- Coarse and fine voltage and current controls
- Overload and Reverse Polarity protection
- Adjustable Overvoltage Protection
- High-Current Terminal Strip with Remote Sensing



A range of high-quality, single output, compact, and lightweight switching mode power supplies. All come with a one-year warranty, test leads, power cord and instruction manual. Choice of uncalibrated or calibrated models. Power supplies with a calibration certificate have “C” suffix at the end of the type number.

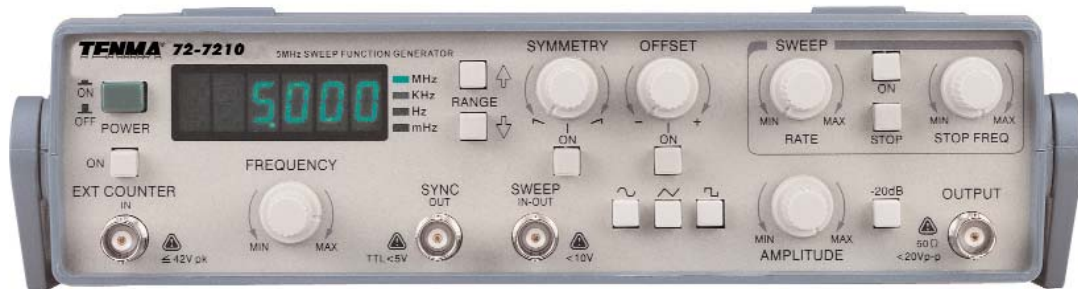
SPECIFICATIONS:	
Constant Voltage Operation	Line Regulation $\leq 5\text{mV}$
	Load Regulation $\leq 5\text{mV}$
	Ripple & Noise $\leq 5\text{ mVrms}$ , 100 mV p-p 20 Hz ~ 20 MHz
Constant Current Operation	Line Regulation $\leq 3\text{mA}$
	Load Regulation $\leq 3\text{mA}$
	Ripple Current $\leq 30\text{mA}$ (72-7705)
	$\leq 5\text{mA}$ (72-7695)
	$\leq 10\text{mA}$ (72-7700, 72-7690)
	$\leq 30\text{mA}$ (72-7685)
Power Source	AC 115/230 V $\pm 15\%$ , 50/60 Hz
Dimensions / Weight	5.03 W x 5.70 H x 11.22" D / 7 lbs.

Type	Description	Stock No.
<b>72-7685</b>	Single Output 0~12V @ 0~30 A	96H1236
<b>72-7685C</b>	Calibrated — Single Output 0~12V @ 0~30 A	02J7825
<b>72-7690</b>	Single Output 0~18V @ 0~20 A	96H1237
<b>72-7690C</b>	Calibrated — Single Output 0~18V @ 0~20 A	02J7826
<b>72-7695</b>	Single Output 0~36V @ 0~10 A	96H1238
<b>72-7695C</b>	Calibrated — Single Output 0~36V @ 0~10 A	02J7827
<b>72-7700</b>	Single Output 0~24V @ 0~15 A	96H1239
<b>72-7700C</b>	Calibrated — Single Output 0~24V @ 0~15 A	02J7828
<b>72-7705</b>	Single Output 0-60V @ 0-6 A	96H1240
<b>72-7705C</b>	Calibrated — Single Output 0-60V @ 0-6 A	02J7829

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## 5 AND 15MHz SWEEP FUNCTION GENERATORS



- 0.01Hz to 15MHz in 7 steps (Type 72-7650)
- 0.01H to 5MHz in 7 steps (Type 72-7210)
- Built-in Int. Ext. 50MHz frequency counter
- Frequency, symmetry, linear sweep, DC offset and amplitude function
- AM, FM, and EXT. modulation (Type 72-7650 only)
- Output waveform: Sine, Triangle, Square, DC and Sync output
- Output Amplitude: 10 Vp-p Adjustable @ 50.
- Offset level:  $\square$  }10V adjustable @ open circuit
- Includes owners manual and power cord
- CE compliant

### SPECIFICATIONS

Model	Type 72-7650	Type 72-7210
Frequency	0.01Hz ~ 15MHz, 7 Ranges	0.01Hz ~ 15MHz, 7 Ranges
Display	5 Digit LED	4 Digit LED
Sweep Time / Rate	10 msec ~ 5 sec. / 1:1 ~1:100	10 msec ~ 5 sec. / 1:1 ~1:100
Power Requirements	100/120/220/240VAC (Selectable) 50/60Hz	
Dimensions	261 (W) x 71(H) x 211 (D) mm	
Weight	3kg	1.6 kg

Type	Description	Stock No.
72-7210	5MHz Sweep Function Generator	96H8195
72-7210C	5MHz Sweep Function Generator w/Calibration	02J7822
72-7650	15MHz Sweep Function Generator	96H8196
72-7650C	15MHz Sweep Function Generator w/Calibration	02J7823

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## PALM SIZED DIGITAL MULTIMETERS

- 3 ¾ Digit LCD
- 3999 Count (Type 72-7765)
- 1999 Count (Type 72-7770)
- Auto Ranging (Type 72-7765)
- Manual Ranging & Back light Display (Type 72-7770)
- Diode and Continuity Tester
- hFE Transistor tester (72-7765)
- Square Wave output & Data Hold (Type 72-7770)
- 1-Year Warranty
- Meets IEC 1010, 600V CAT I, 300V CAT II
- CE Compliant
- Includes leads, holster and manual
- Power 2 AAA batteries (*not included*)



<b>DC Voltage</b>	400mV (72-7765) 200mV (72-7770) to 500V
<b>AC Voltage</b>	40V (72-7765) 200V (72-7770) to 500V
<b>DC Current</b>	400uA (72-7765) 2000uA (72-7770) to 10A
<b>AC Current</b>	400uA to 10A (72-7765)
<b>Resistance</b>	400Ω to 40MΩ (72-7765)
	200Ω to 200MΩ (72-7770)
<b>Dimensions</b>	130 (H) x 73.5 (W) x 35 (L) mm

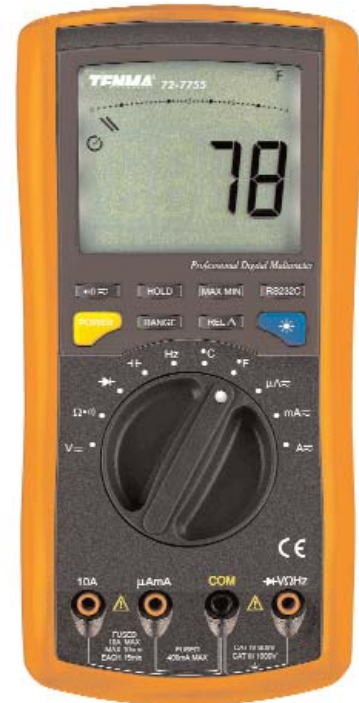
Type	Description	Stock No
72-7765	Auto Ranging Digital Multimeter	02J5546
72-7770	Manual Ranging Digital Multimeter	02J5547

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## PROFESSIONAL AUTORANGING DMM's

- 3 ¾ Digit LCD, 3999 Count , ±0.8% DC accuracy (Type 72-7755)
- 4 ¾ Digit LCD, 79999 Count ±0.5% DC accuracy (Type 72-7760)
- Auto/ manual ranging selector
- True RMS (Type 72-7760)
- Extra Large Full Icon Display, Analog Bar Graph
- Calibration including documentation as standard
- Back light Display
- Diode, Continuity and Data hold
- Capacitance measurement
- Duty Cycle and Conductance (Type 72-7760)
- Temperature measurement (Type 72-7755)
- Frequency measurement
- Min/Max/AVG, Relative mode
- Peak/MIN/MAX and relative percentage mode (Type 72-7760)
- RS-232 Pc interface
- 1-Year Warranty
- Meets IEC 1010, 1000V CAT III, 600V CAT IV
- CE Compliant



### Specifications

	72-7755C (02J7834)	72-7760C (02J7835)
<b>DC Voltage</b>	400mV to 1000V	80mV to 1000V
<b>AC Voltage</b>	4V to 750V	80mV to 1000V
<b>DC Current</b>	400uA to 10A	80mA to 10A
<b>AC Current</b>	400uA to 10A	80mA to 10A
<b>Resistance</b>	400Ω to 40MΩ	800Ω to 80MΩ
<b>Capacitance</b>	4nF to 40mF	1nF to 100uF
<b>Frequency</b>	4kHz to 400MHz	1kHz to 1MHz
<b>Temperature</b>	-40°F to 1832°F (-40°C to 1000°C)	
<b>Conductance</b>	N/A	80nS
<b>Duty Cycle</b>	N/A	1% to 99%
<b>Dimensions</b>	195 (H) x 90 (W) x 40 (L) mm	

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## ADVANCED AUTORANGING DMM'S

- 3 ¾ Digit LCD, 3999 Count
- $\pm 0.8$  DC accuracy
- Auto/ manual ranging selector
- Calibration including documentation as standard
- Back light Display (Except 72-7735)
- Overmoulded cases
- Overload protection
- Diode, Continuity and Data hold
- Capacitance measurement
- Duty Cycle (Type 72-7740)
- Temperature measurement
- Frequency measurement
- Min/Max, Relative mode
- RS-232 Pc interface (Except 72-7740)
- 1-Year Warranty
- Meets IEC 1010, 1000V CAT II, 600V CAT III
- CE Compliant



Specification	
DC Voltage	400mV to 1000V
AC Voltage	4V to 750V
AC / DC Current	400uA to 10A
Resistance	400 $\Omega$ to 40M $\Omega$
Capacitance	40nF to 100uF
Frequency	10Hz to 10MHz
Temperature (Except 72-7735)	-40 °F to 1832 °F (-40 °C to 1000 °C)
Duty Cycle (Type 72-7740 only)	0.1% to 99.9%
Dimensions	177 (H) x 85 (W) x 40 (L) mm

Type	Description	Stock No
72-7735C	Calibrated Advanced Autoranging Digital Multimeter	02J7830
72-7740C	Calibrated Advanced Autoranging Digital Multimeter	02J7831
72-7745C	Calibrated Advanced Autoranging Digital Multimeter	02J7832

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72-7720  
[Stk. No. 02J5538]

## MODERN DIGITAL MULTIMETER

Features:

- Diode Test
- Continuity buzzer
- Data Hold
- Display Backlight
- Full Icon Display
- Sleep Mode
- Low Battery Display
- DC Input Impedance Approx 10M $\Omega$
- Max Display 1999
- LCD Size: 59mm x 25mm
- Weight: Approx. 275g
- Size: 165mm x 80mm x 38.3mm
- Includes: Test Leads, Battery, Manual, Test Clip



Function	Range	Accuracy
DC Voltage	200mV, 2V, 20V, 200V, 1000V	$\pm (0.5\%+1)$
AC Voltage	200mV, 2V, 20V, 200V, 750V	$\pm (0.8\%+3)$
DC Current	20mA, 2mA, 200mA, 20A	$\pm (0.8\%+1)$
AC Current	200mA, 2mA, 20mA, 200mA, 20A	$\pm (1\%+3)$
Resistance	200 $\Omega$ , 2k $\Omega$ , 20k $\Omega$ , 200k $\Omega$ , 2M $\Omega$ , 20M $\Omega$ , 200M $\Omega$	$\pm (0.8\%+1)$
Capacitance	2nF, 20nF, 2 $\mu$ F, 100 $\mu$ F	$\pm (4\%+3)$

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**72-7725**  
**[Stk. No. 02J5539]**

## MODERN DIGITAL MULTIMETER W/TEMPERATURE

Features:

- Diode Test
- Continuity buzzer
- Data Hold
- Display Backlight
- Full Icon Display
- Sleep Mode
- Low Battery Display
- DC Input Impedance Approx 10M $\Omega$
- Max Display 1999
- LCD Size: 59mm x 25mm
- Weight: Approx. 275g
- Size: 165mm x 80mm x 38.3mm
- Includes: Test Leads, Battery, Manual, Point Contact Temperature Probe, Test Clip



Function	Range	Accuracy
DC Voltage	200mV, 2V, 20V, 200V, 1000V	$\pm (0.5\%+3)$
AC Voltage	2V, 20V, 200V, 750V	$\pm (0.5\%+10)$
DC Current	2mA, 20mA, 200mA, 20A	$\pm (0.5\%+5)$
AC Current	20mA, 200mA, 20A	$\pm (0.8\%+10)$
Resistance	200 $\Omega$ , 2k $\Omega$ , 20k $\Omega$ , 200k $\Omega$ , 2M $\Omega$ , 20M $\Omega$ , 200M $\Omega$	$\pm (0.3\%+1)$
Capacitance	2nF, 20nF, 2 $\mu$ F, 20 $\mu$ F	$\pm (0.3\%+40)$
Temperature ( $^{\circ}$ C)	-40 $^{\circ}$ C to 1000 $^{\circ}$ C	$\pm (1\%+30)$
Frequency	20kHz	$\pm (1.5\%+5)$

**Dedicated Technical Support**  
**1-888-SPC-TECH (1-888-772-8324)**



**72-7750C**  
**[Stk. No. 02J7833]**

## ADVANCED DIGITAL MULTIMETER W/RS232

- 3 ¾ Digit LCD, 5999 Count
- $\pm 0.5$  DC accuracy
- Auto/ manual ranging selector
- Calibration including documentation as standard
- Back light Display
- Overmoulded cases
- Overload protection
- Diode, Continuity and Data hold
- Capacitance measurement
- Temperature measurement
- Frequency measurement
- Min/Max, Relative mode
- RS-232 Pc interface
- 1-Year Warranty
- Meets IEC 1010, 1000V CAT II, 600V CAT III
- CE Compliant
- Includes: Test Leads, Battery, Manual, Point Contact Temperature Probe, Test Clip, RS232 Cable and software



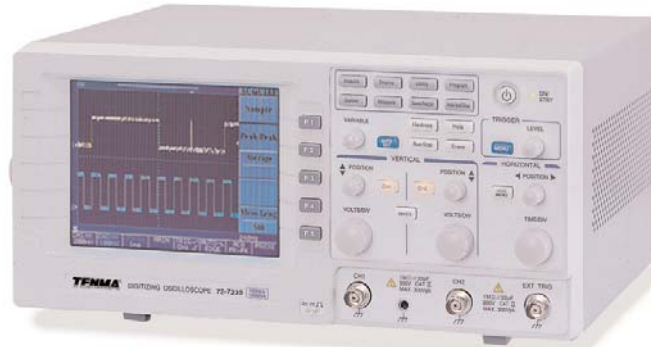
Functions	Range	Accuracy
DC Voltage	600mV, 6V, 60V, 600V, 1000V	$\pm (0.5\% + 3)$
AC Voltage	600mV, 6V, 60V, 600V, 1000V	$\pm (1\% + 2)$
DC Current	60mA, 600mA, 10A	$\pm (1.2\% + 3)$
AC Current	60mA, 600mA, 10A	$\pm (2\% + 5)$
Resistance	600 $\Omega$ , 6k $\Omega$ , 60k $\Omega$ , 600k $\Omega$ , 6MW, 60MW	$\pm (1\% + 2)$
Capacitance	6nF, 60nF, 600nF, 6 $\mu$ F, 600 $\mu$ F, 6 $\mu$ F	$\pm (4\% + 3)$
Temperature ( $^{\circ}$ C)	-40 $^{\circ}$ C to 1000 $^{\circ}$ C	$\pm (1\% + 3)$
Frequency	6kHz, 60kHz, 6MHz, 60MHz	$\pm (0.05\% + 3)$

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# TENMA®

**72-7235**  
**[Stk. No. 22H6394]**

## 150MHz DIGITAL STORAGE OSCILLOSCOPE



- 150MHz Bandwidth With Color LCD Display
- 125K Long Memory and 12 Division Horizontal Display
- 25GS/s Sampling Rate for Repetitive Waveforms
- Advanced Trigger : Pulse Width , TV Line, Event Delay and Time Delay
- Go-No Go, Learn Mode and Auto Setup Sequence, FFT Function
- Built-In Help Menu, Multi-Language and PC Software
- Standard Interface: USB, RS-232C, Printer Port
- 15 Automatic Measurements

The 72-7235 150MHz Digital Storage Oscilloscope with color LCD display is designed and built to meet the demands of a modern DSO in the main stream market today.

- The FFT Function converts a captured waveform from time domain into frequency domain.
- The Go-No Go Function gives an instant view of the performance of a DUT or provides an easy way to baby-sit the abnormal event of a signal.
- The Learn Mode and Auto Setup Sequence function lets the user complete his ATE test procedures without software programming.

# TENMA®

**72-7240**  
**[Stk. No. 22H6395]**

## 250MHz DIGITAL STORAGE OSCILLOSCOPE



- 250MHz Bandwidth With Color LCD Display
- 125K Long Memory and 12 Division Horizontal Display
- 25GS/s Sampling Rate for Repetitive Waveforms
- Advanced Trigger : Pulse Width , TV Line, Event Delay and Time Delay
- Go-No Go, Learn Mode and Auto Setup Sequence, FFT Function
- Built-In Help Menu, Multi-Language and PC Software
- Standard Interface: USB, RS-232C, Printer Port
- 15 Automatic Measurements

The 72-7240 250MHz Digital Storage Oscilloscope with color LCD display is designed and built to meet the demands of a modern DSO in the main stream market today.

- The FFT Function converts a captured waveform from time domain into frequency domain.
- The Go-No Go Function gives an instant view of the performance of a DUT or provides an easy way to baby-sit the abnormal event of a signal.
- The Learn Mode and Auto Setup Sequence function lets the user complete his ATE test procedures without software programming.





**72-7260**  
**[Stk. No. 16H5084]**

## SOUND LEVEL METER CALIBRATOR

- Calibrates and Verifies Sound Level Meter's Operation
- 1KHz Sine Wave at 94dB (Accuracy of 5%, 0.8dB)
- Die-Cast Aluminum Alloy Housing
- Built-In Battery Test Indicator
- Includes carrying case, screwdriver, & 0.5" mic. adapter
- Requires two 9V batteries (*Not Included*)
- Size: 50mm Dia x 92mm
- CE compliant



**72-7276**  
**[Stk. No. 22H6400]**

## AC VOLTAGE METER

- Measures from 200mV - 200.0VDC in 4-Ranges
- 10MΩ Input Impedance
- Meets IEC1010 CAT III
- CE Compliant

Range	Resolution	Accuracy
2V	0.001V	±1.0% + 2 Digit
20V	0.01V	±1.0% + 2 Digit
200V	0.1V	±1.0% + 2 Digit
600V	1V	±1.0% + 2 Digit



## AC AMMETER

**72-7278**  
**[Stk. No. 22H6400]**



Range	Resolution	Accuracy	Voltage Drop (at Full Scale)	Overload Protection
2mA	0.001mA	±1.0% + 1 Digit	200mV	500mA Fuse
20mA	0.01mA	±1.0% + 1 Digit	200mV	500mA Fuse
200mA	0.1mA	±1.0% + 1 Digit	200mV	500mA Fuse
5A	0.01A	±1.5% + 2 Digit	50mV	10A Fuse