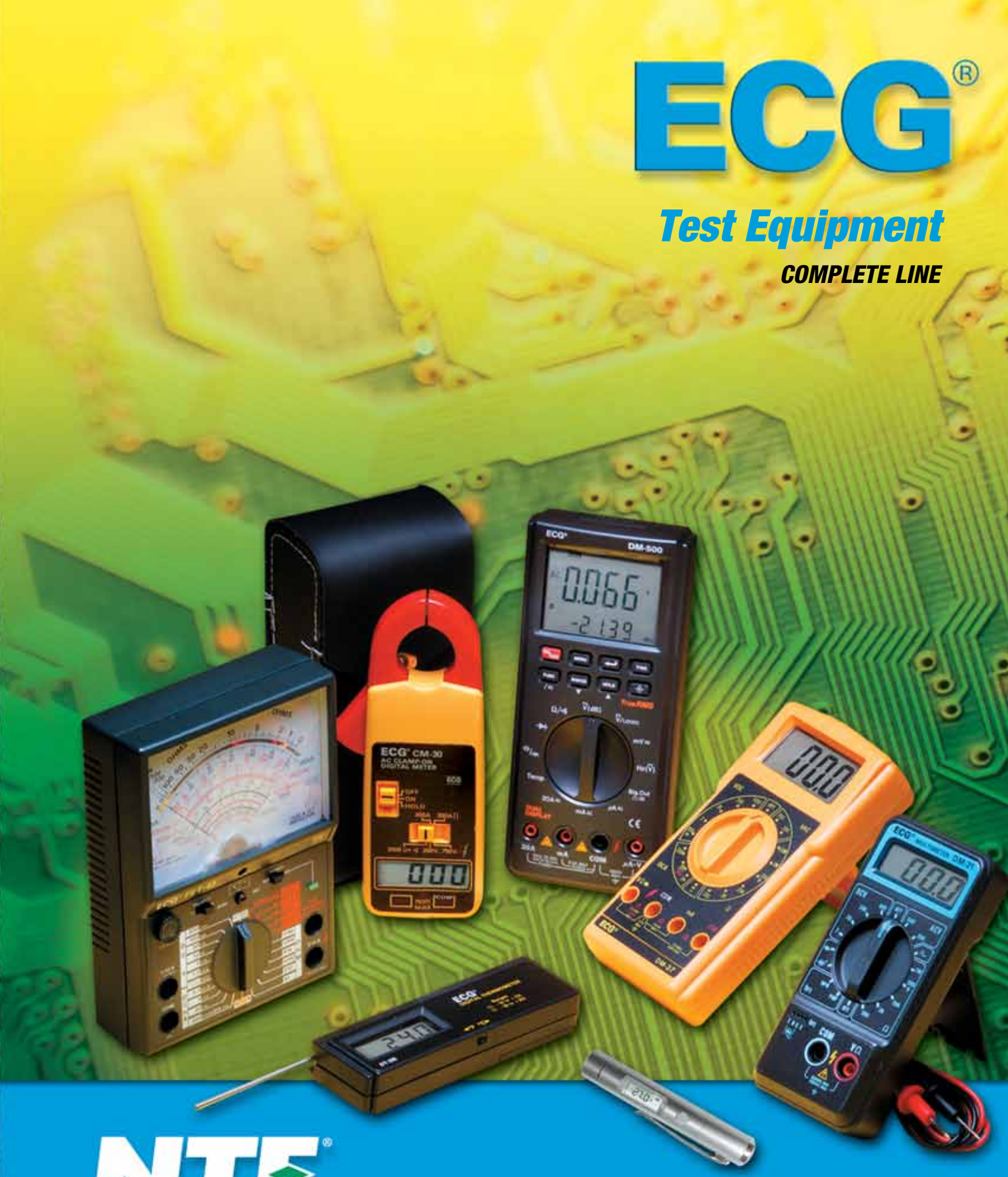
ECG®

Test Equipment

COMPLETE LINE



NTE® ELECTRONICS, INC.

Analog Multimeter

AM-10

- **Pocket Size - Very Economical**
- **6 Functions, 10 Ranges**

- ±4% Basic DC Accuracy
- 2” Mirrored Scale
- 2KΩ/V AC & DC Input Sensitivity
- Fuse and Diode Protection
- DC Current
- Resistance
- Decibels
- Battery Test
- 90-Day Limited Warranty

Test Leads (ML-10) and Operating Instructions Included

SPECIFICATIONS:

General

Front/Side Controls: *Range selector switch, “0” Ω adjustment*
Movement: *90° arc, 200µA full scale*
Scales (5): *One scale for OHMS, 2 scales for AC/DC, one scale for dB and Battery test*
Scale Length: *2”*
Operating Position: *Horizontal or vertical*
Power: *1.5V AA battery (not included)*
Movement and Indicator Protection: *Diode and Fuse (0.5A, 250V)*
Dimensions, Weight: *2.4” wide x 3.5” long x 1.1” thick (60mm x 89mm x 29mm), net weight 4oz. (113g)*

DC Voltage

Ranges: *0-15, 150, 500V*
Input Impedance: *2kΩ per Volt*
Rated Accuracy: *±4% of full scale*

DC Current

Ranges: *0-150mA*
Rated Accuracy: *±4% of full scale*

AC Voltage

Ranges: *0-15, 150, 500V*
Input Impedance: *2kΩ per Volt*
Rated Accuracy: *±5% of full scale*

Resistance

Ranges:
R x 1K 0 - 1MΩ (full scale)

Decibels

Ranges:
-20dB to +26dB on 15V AC range
0dB to +46dB on 150V AC range
10dB to +56dB on 500V AC range

Battery Test

Ranges: *1.5V AA*

Analog Multimeter

AM-30

- **Our Top Of The Line Analog Meter**
- **Full Function**
- **Temperature Measurement**

- 3% DC Accuracy FS
- 5” Mirrored Scale
- 30KΩ/V DC, 10KΩ/V AC Input Sensitivity
- Fuse and Diode Protection
- 10 Amp DC Range
- 1000 Volts AC/DC
- Transistor Test
- Battery Test
- Continuity Buzzer
- Tilt Stand/Carrying Handle
- 90-Day Limited Warranty

Test Leads (ML-43), Temperature Probe (TC-30), Fuse and Operating Instructions Included

SPECIFICATIONS:

General

Front Panel Controls: *Range selector switch with “OFF” position, 0Ω adjust/ temperature calibration, 0Ω calibration switch*

Movement: *90° arc, 25µA movement*

Scales (8): *One scale for OHMS, three scales for AC/DC, one scale for dB, two scales for temperature, one scale for battery test*

Scale Length: *5”*

Operating Position: *Horizontal or vertical; rubber pads to prevent slipping on moderate horizontal slopes*

Power: *9V (NEDA 1604) and 1.5V AA (2) batteries (not included)*

Movement and Indicator Protection: *Fuse (0.5A, 250V)*

Operating Temperature: *18°C to 25°C for rated accuracy*

Dimensions, Weight: *4.8” wide x 6.9” long x 1.9” thick (127mm x 175mm x 48mm), net weight 14oz. (422g)*

DC Voltage

Ranges: *0-0.6, 3, 12, 60, 300, 1000V*

Input Impedance: *30kΩ per Volt*

Rated Accuracy: *±3% of full scale*

DC Current

Ranges: *120µ, 13m, 30m, 300m, 10A*

Rated Accuracy: *±3% of full scale*

AC Voltage

Ranges: *0-12, 30, 120, 300, 1000V*

Input Impedance: *10kΩ per Volt*

Rated Accuracy: *±4% of full scale*

Resistance

Ranges:

R x 1	*0-5kΩ*
R x 100	*0-500kΩ*
R x 1k	*0-5MΩ*
R x 10k	*0-50MΩ*

Rated Accuracy: *3° arc*

Decibels

Ranges:

-10dB to +24dB on 12V AC range
-2dB to +32dB
8dB to +44dB
20dB to +52dB
30dB to +62dB

0dB referenced to 1 milliwatt at 600Ω

Temperature

Ranges: *-50°C to +260°C (-60°F to +400°F)*

Battery Test

Ranges: *1.5V AA, 9V*

Analog Multimeter

FET-43

- ***Very High Input Impedance***
- ***Excellent Trouble Shooting Tool***
- ***5 Functions, 43 Ranges***

- 4.5" Meter Scale
- ±2.5% DC accuracy FS
- 10MΩ DC, 1MΩ AC Input Resistance
- FET Input
- Jeweled Meter Movement
- Overload Protection †
- Polarity Reversing Switch *
- Zero Center Scale Adjustment
- Low Battery Indicator
- Metal Tilt Stand
- 1-Year Limited Warranty

Battery, Test Leads (ML-43) and Operating Instructions Included

SPECIFICATIONS:

General

Front Panel Controls: *Range selector switch, power on-off switch, with operational LED, polarity reverse switch, "0" Ω ADJ, Center "0" ADJ*

Movement: *Jeweled pivots, 90° arc, 44µA full scale*

Scales (9): *Ω DC V•A, AC RMS, AC peak to peak (2), ±DC V•A (center null), AC 12 A, DC 0.1µA, dB*

Scale Length: *4.5"*

****Polarity Reverse Switch:*** *DC and Ω ranges (Reverses meter movement only. Does not reverse test lead polarity.)*

Operating Position: *Horizontal or vertical, rubber pads to prevent slipping on moderate slopes*

Power: *1.5V AA (2) and 9V (NEDA 1604) batteries*

Movement and Indicator Protection: *Double FET protection and fuse (2A/250V)*

Operating Temperature: *25°C (75°F) rated accuracy, less than 4% additional error over the range of -4°C (25°F) to 50°C (130°F)*

Dimensions, Weight: *5" wide x 6.75" long x 2" thick (125mm x 170mm x50mm), net weight 17oz. (480g)*

DC Voltage

Ranges: *0-0.3, 1.2, 3.0, 120, 300, 1200V, 0-±1.5, 0.6, 6, 15, 60, 150, 600V at Center 0*

Input Impedance: *Approx. 10MΩ, 3MΩ on 300 mV range*

Rated Accuracy: *±2.5% DC and ±3.5% AC of full scale on all ranges*

DC Current

Ranges: *0-0.1µA, 0.3, 3, 30, 300mA, 12A*

Potential Drop: *300mV*

Rated Accuracy: *Within ±2.5% full scale on all ranges*

AC Voltage

Ranges: *RMS 0-3, 12, 30, 120, 300, 1200V, peak to peak, 0-8.4, 33, 84, 330, 840, 3300RMS, 1200V (peak to peak 3300V) on separate jack*

Input Impedance: *Approx. 1MΩ, 800pF; 2.5MΩ on 3V range*

Rated Accuracy:
50Hz - 5MHz ±3%
30Hz - 10MHz ±1dB sine wave
30Hz - 1MHz ±1dB rectangular wave at 3V range only
30Hz - 3MHz ±5% sine wave
30Hz - 120MHz ±5% rectangular on all other ranges except 3V

dB: *-10dB - +63dB on AC ranges*

AC Current

Ranges: *0-12A, within ± 3.5% full scale. DC, AC,12 Amp range on separate jack*

Resistance

Ranges:

R x 1	0 - 1KΩ (Center 10)
R x 10	0 - 10KΩ (Center 100Ω)
R x 100	0 - 100KΩ (Center 1KΩ)
R x 1K	0 - 1MΩ (Center 10KΩ)
R x 10K	0 - 10MΩ (Center 100KΩ)
R x 1M	0 - 1000MΩ (Center 10MΩ)

Accuracy: *±2.5° of arc*

† Does not apply to 12 Amp range. Damage to meter or injury to operator can occur if voltage or excessive current is applied to 12 Amp. input.

DM-21

• Low Cost General Purpose

- Transistor h_{FE}
- Diode Test
- LED Test
- Square Wave Generator
- 7 Functions, 11 Ranges
- 0.8% Basic DC Accuracy
- 3 1/2 Digit LCD, 0.55" H
- Low Power Ω
- Overload Protection
- RF Shielded
- Polarity Indicator
- Low Battery Indicator
- Tilt Stand
- 1-Year Limited Warranty

Battery, Test Leads (ML-375) and Operating Instructions Included

SPECIFICATIONS:

General

Display: *3 1/2 Digit LCD, 0.55" high, with polarity*

Overrange Indication: *"1" or "–1" is displayed.*

Measurement Rate: *2.5 times per second*

Operating Environment: *0°C to 50°C, <70% relative humidity*

Storage Environment: *-20°C to 60°C, <80% relative humidity with battery removed*

Power: *9V carbon zinc battery (NEDA 1604)*

Battery Life: *150 hours typical with carbon zinc cells*

Low Battery Indicator: *Symbol is displayed*

Dimensions, Weight: *2.8" wide x 6" long x 1.5" thick (70mm x 151mm x 38mm), net weight 7oz. (200g)*

DC Voltage

Range	*Resolution*	*Accuracy*
2V	*1mV*	*±0.8% of rdg ±1D*
20V	*10mV*	*±0.8% of rdg ±1D*
200V	*100mV*	*±0.8% of rdg ±1D*
600V	*1V*	*±0.8% of rdg ±1D*

Input Impedance: 1MΩ on all ranges.

Maximum Input: 600V DC or 500AC rms.

AC Voltage

Range	*Resolution*	*Accuracy*
200V	*100mV*	*± 1.5% of rdg ±4D*
500V	*1V*	*± 1.5% of rdg ±4D*

Input Impedance: 450KΩ on all ranges.

Maximum Input: 600V DC or 500AC rms.

Frequency Range: 50Hz - 500Hz.

Resistance

Range	*Resolution*	*Accuracy*
200Ω	*0.1Ω*	*±1.5% of rdg ±3D*
2KΩ	*1Ω*	*±1.5% of rdg ±3D*
20KΩ	*10Ω*	*±1.5% of rdg ±3D*
200KΩ	*100Ω*	*±1.5% of rdg ±3D*
2MΩ	*1KΩ*	*±1.5% of rdg ±3D*

Overload Protection: 500V DC or 350AC rms

Transistor h_{FE} Test (PNP, NPN)

Test Condition: 10µA Base Current @ <3.5V

h_{FE} Range: 0 - 1000

Diode Test

Voltage: *<3.5V @ 1mA ±0.6mA*

LED Test

Voltage: *<3.5V @ 10mA ±0.6mA*

Generator

Waveform: Square

Frequency: 50Hz approx

Output: ±3 to -0.5V DC, 50% Duty Cycle

Impedance: 120KΩ

Digital Multimeter

DM-38A

- **Multifunction DMM**
- **Heavy Duty**
- **3 3/4 Digit, 0.5" H**
- **Peak Data Hold**
- Frequency Counter
- Capacitance Test
- Logic Detector
- 20A AC/DC
- 0.5% Basic DC Accuracy
- 40MΩ Full Scale
- Transistor h_{FE} Test
- Diode Test
- Audible Continuity Test
- 20MΩ Input Z
- Overload Protection
- RF Shielded
- Lo Power Ohms
- Tilt Stand
- Polarity Indicator
- Overrange Indicator
- Low Battery Indicator
- 1-Year Limited Warranty

Battery, Test Leads and Operating Instructions Included

SPECIFICATIONS:

General

Display: *3 3/4 Digit LCD, 0.5" high, with polarity indicator (4,000 count)*

Overrange Indication: *"OL" is displayed*

Measurement Rate: *3 times per second*

Operating Environment: *0°C to 50°C, <70% relative humidity*

Storage Environment: *-20°C to 60°C, <80% relative humidity with battery removed*

Power: *9V carbon zinc battery (NEDA 1604)*

Battery Life: *150 hours typical with carbon zinc cells*

Low Battery Indicator: *Display indicates "B"*

Dimensions, Weight: *3.3" wide x 6.3" long x 1" thick (84mm x 160mm x 25mm), net weight 9oz. (250g)*

Peak Data Hold: *When the Peak Hold function is engaged, the maximum reading is shown on the display until a higher reading is recorded or power to the meter is removed*

DC Voltage

Range	Resolution	Accuracy
400mV	100µV	±0.5% of rdg ±1D
4V	1mV	±0.5% of rdg ±1D
40V	10mV	±0.5% of rdg ±1D
400V	100mV	±0.5% of rdg ±1D
1000V	1V	±0.5% of rdg ±1D

Input Impedance: 20MΩ on all ranges

Overload Protection: 500V DC/350V AC for 15 sec. on 400mV range; 1,100V DC/800V AC on all other ranges

DC Current

Range	Resolution	Accuracy
40mA	10µA	±1% of rdg ±1D
400mA	100µA	±1% of rdg ±1D
20A	10mA	±2% of rdg ±3D

Overload Protection: mA input 0.8A/250V fuse; 20A input (unfused), up to 20A for 15 seconds

AC Voltage

Range	Resolution	Accuracy
400mV	100µV	±1% of rdg ±4D
4V	1mV	±1% of rdg ±4D
40V	10mV	±1% of rdg ±4D
400V	100mV	±1% of rdg ±4D
750V	1V	±1.5% of rdg ±4D

Input Impedance: 20MΩ on all ranges

Overload Protection: 500V DC/350V AC for 15 sec. on 400mV range; 1,100V DC/800V AC on all other ranges

Frequency Range: 50 - 500Hz

AC Current

Range	Resolution	Accuracy
40mA	10µA	±1.2% of rdg ±4D
400mA	100µA	±1.2% of rdg ±4D
20A	10mA	±2% of rdg ±4D

Overload Protection: mA input, 0.8A/250V fuse; 20A input (unfused), up to 20A for 15 seconds

Resistance

Range	Resolution	Accuracy
400Ω	0.1Ω	±1% of rdg ±3D
4KΩ	1Ω	±0.8% of rdg ±1D
40KΩ	10Ω	±0.8% of rdg ±1D
400KΩ	100Ω	±0.8% of rdg ±1D
4MΩ	1KΩ	±0.8% of rdg ±1D
40MΩ	10KΩ	±3% of rdg ±3D
400MΩ	1MΩ	±5% of rdg -10D, +4D

Overload Protection: 500V DC/AC, 10 seconds

Capacitance

Range	Resolution	Accuracy
4nF	1pF	±3% of rdg ±10D
40nF	10pF	±3% of rdg ±10D
400nF	100pF	±3% of rdg ±10D
4µF	1nF	±3% of rdg ±10D
40µF	10nF	±3% of rdg ±10D

Test Frequency: 400Hz

Test Voltage: 50mV

Frequency Measurement

Range: 4K to 4MHz (Autorange)

Accuracy: ± 1% rdg ± 2D

Input Sensitivity: 50mV rms

Overload Protection: 500V DC/AC

Logic Measurement

Logic Type: TTL

Input Impedance: 120KΩ ±10K

Logic Thresholds
Logic 1: 2.4V, ±0.2V
Logic 0: 0.7V, ±0.2V

Frequency Response: 20MHz

Detestable Pulse Width: 25ns, min.

Overload Protection: 50V DC/AC

Continuity Test

Resistance Range: 400Ω

Beeper Response: <50Ω

Response Time: <100mSec

Transistor h_{FE} Test (PNP, NPN)

Test Condition: 10µA Base Current @ 2.8V

h_{FE} Range: 0 - 1000

Diode Test

Voltage: 3.2V @ 1.6mA Max

ECG®

NTE® ELECTRONICS, INC.

Digital Multimeter

DM-59

- **Perfect For Workshop and School**
- **10 Functions, 30 Ranges**

- Frequency Counter
- h_{FE}
- Capacitance
- Diode Test
- 20MΩ FS
- 10A AC/DC
- 0.5% Basic DC Accuracy
- 3 1/2 Digit LCD, 0.55" H
- Audible Continuity Test
- 10MΩ Input Z
- Overload Protection
- RF Shielded
- Tilt Stand
- 1-Year Limited Warranty

Battery, Test Leads (ML-375), Spare Fuse and Operating Instructions Included

SPECIFICATIONS:

General

Display: *3 1/2 Digit LCD, 0.55" high, with polarity*

Overrange Indication: *"0L" is displayed*

Measurement Rate: *2.5 times per second*

Operating Environment: *0°C to 50°C, <70% relative humidity*

Storage Environment: *-20°C to 60°C, <80% relative humidity with battery removed*

Power: *9V carbon zinc battery (NEDA 1604)*

Battery Life: *150 hours typical with carbon zinc cells*

Low Battery Indicator: *Symbol is displayed*

Dimensions, Weight: *2.8" wide x 6" long x 1.5" thick (70mm x 151mm x 38mm) net weight 7oz. (200g)*

DC Voltage

Range	Resolution	Accuracy
200mV	100µV	±0.5% of rdg ±1D
2V	1mV	±0.5% of rdg ± 1D
20V	10mV	±0.5% of rdg ±1D
200V	100mV	±0.5% of rdg ±1D
600V	1V	±0.5% of rdg ±1D

Input Impedance: 10MΩ on all ranges

Maximum Input: 600V DC or AC rms

DC Current

Range	Resolution	Accuracy
2mA	1µA	±1.0% of rdg ±1D
20mA	10µA	±1.0% of rdg ±1D
200mA	100mA	±1.0% of rdg ±1D
10A	10mA	±3.0% of rdg ±1D

Overload Protection: mA input, 0.5A/250V fuse; 10A input 10A/600V fuse

AC Voltage

Range	Resolution	Accuracy
200mV	100µV	±1.0% of rdg ±4D
2V	1mV	±1.0% of rdg ±4D
20V	10mV	±1.0% of rdg ±4D
200V	100mV	±1.0% of rdg ±4D
600V	1V	±1.9% of rdg ±4D

Input Impedance: 10MΩ on all ranges

Maximum Input: 600V DC or AC rms

Frequency Range: 50Hz - 500Hz

AC Current

Range	Resolution	Accuracy
2mA	1µA	±2.0% of rdg ±4D
20mA	10µA	±2.0% of rdg ±4D
200mA	100mA	±2.0% of rdg ±4D
10A	10mA	±3.5% of rdg ±4D

Overload Protection: mA input, 0.5A/250V fuse; 10A input 10A/250 fuse

Resistance

Range	Resolution	Accuracy
200Ω	0.1Ω	±0.8% of rdg ±3D
2KΩ	1Ω	±0.8% of rdg ±1D
20KΩ	10Ω	±0.8% of rdg ±1D
200KΩ	100Ω	±0.8% of rdg ±1D
2000KΩ	1KΩ	±0.8% of rdg ±1D
20MΩ	10KΩ	±3% of rdg ±3D

Overload Protection: 500V DC or AC rms

Capacitance

Range	Resolution	Accuracy
2000pF	1pF	±2.0% of rdg ±10D
20nF	10pF	±2.0% of rdg ±10D
200nF	100pF	±2.0% of rdg ±10D
2µF	1nF	±2.0% of rdg ±10D
20µF	10nF	±2.0% of rdg ±10D

Test Frequency: 2.5Hz

Test Voltage: 3V

Frequency Measurement

Range: 2kHz - 15MHz (Autorange)

Accuracy: ±0.1% rdg ±1D

Input Sensitivity: Trig Lo: 1 Vrms; Trig Hi: 2 Vrms

Overload Protection: 500V DC or AC rms

Continuity Test (Audible)

Resistance Range: 200Ω

Beeper Response: <40Ω

Transistor h_{FE} Test (PNP, NPN)

Test Condition: 10µA Base Current @ <3.5V

h_{FE} Range: 0 - 1000

Diode Test

Voltage: 2V @ 1.6mA Max

Digital Multimeter

DM-75

- **Low Cost**
- **Full Function General Purpose**
- **Rotary Range Switch**

- Diode Test
- 0.7% Basic DC Accuracy
- 3 1/2 Digit LCD, 0.5" H
- 10A DC
- 10MΩ Input Impedance, DC
- Overload Protection
- Pocket Size
- 90-Day Limited Warranty

Battery, Test Leads and Operating Instructions Included

SPECIFICATIONS:

General

Display: *3 1/2 Digit LCD, 0.5" high, with polarity indicator*

Overrange Indication: *3 least significant digits blanked*

Operating Environment: *0°C to 50°C, <80% relative humidity*

Storage Environment: *-15°C to 50°C*

Power: *9V alkaline or carbon zinc battery*

Battery Life: *100 hours typical with carbon zinc cells, 200 hours typical with alkaline cells*

Dimensions, Weight: *2.8" wide x 5" long x 1" thick (71mm x 127mm x 25.4mm), net weight 6.1oz. (173g)*

DC Voltage

Range	Resolution	Accuracy
200mV	0.1mV	±0.7% of rdg ±4D
2000mV	1mV	±0.7% of rdg ±2D
20V	10mV	±0.7% of rdg ±2D
200V	100mV	±0.7% of rdg ±2D
1000V	1V	±0.7% of rdg ±2D

Input Impedance: 10MΩ on all ranges

DC Current

Range	Resolution	Accuracy
200µA	0.1µA	± 1% of rdg ± 2D
2000µA	1µA	± 1% of rdg ± 2D
20mA	10µA	± 1% of rdg ± 2D
200mA	100µA	± 1.2% of rdg ± 2D
2000mA	1mA	± 1.5% of rdg ± 2D
10A	10mA	± 1.5% of rdg ± 2D

Overload Protection: mA input, 2A/250V fuse; 10A input (unfused) up to 10A for 15 seconds

AC Voltage

Range	Resolution	Accuracy
200V	100mV	±1.2% of rdg ±10D
750V	1V	±1.2% of rdg ±10D

Overload Protection: 750V rms

Frequency Range: 45Hz - 450Hz

Resistance

Range	Resolution	Accuracy
200Ω	0.1Ω	±0.7% of rdg ±2D
2000Ω	1Ω	±0.7% of rdg ±2D
20KΩ	10Ω	±0.7% of rdg ±2D
200KΩ	100Ω	±0.7% of rdg ±2D
2000KΩ	1KΩ	±1% of rdg ±2D

Diode Test

Voltage: 2.8V @ 1mA

Digital Multimeter

DM-78A

- **Heavy Duty, Ideal For Plant/ Industrial Maintenance**

- Water Resistant (O-Ring Seals)
- Withstands 5' Drop
- Protective Holster (MH-350)
- Large Display Window
- 3200 Count LCD, .55" H
- 65 Segment Analog Bar Graph
- 0.5% Basic DC Accuracy
- Auto Power Off
- 10MΩ Input Z
- "No Hand" Data Hold
- Input Warning Beeper*
- 20A AC/DC Fused
- Diode Test
- Instant Continuity Beeper
- Overload Protection
- 1-Year Limited Warranty

Batteries, Test Leads (ML-375), and Operating Instructions Included

SPECIFICATIONS:

General

Display: *3200 count LCD, 65 segment bar graph, 0.55" high, with polarity*

Auto Power Off: *Approx. 10 min. after mode or function change*

Overrange Indication: *"OL" is displayed*

Operating Environment: *0°C to 50°C, <80% relative humidity*

Storage Environment: *-20°C to 60°C, <80% relative humidity with battery removed*

Temperature Coefficient: *(0°C to 18°C and 28°C to 50°C), less than 0.15 x applicable accuracy specification per second*

Measurement Rate: *Digital 2 times per second, analog 12 times per second*

Power: *1.5V AAA (2) alkaline or carbon zinc batteries*

Battery Life: *1000 hours with alkaline cells*

Low Battery Indicator: *Symbol is displayed*

Fuse: *1A 240/250V Fast*

Dimensions, Weight: *3.3" wide x 6.9" long x 1.2" thick (84mm x 175mm x 31mm), net weight 12oz. (340g)*

DC Voltage

Range	Resolution	Accuracy
300mV	0.1mV	±0.5% of rdg ±2D
3V	1mV	±0.5% of rdg ±2D
30V	10 mV	±0.5% of rdg ±2D
300V	100mV	±0.5% of rdg ±2D
1000V	1V	±0.5% of rdg ±2D

Input Impedance: 10MΩ

Overload Protection: 1100VpK (15 sec.)

DC Current

Range	Resolution	Accuracy
300µA	0.1µA	±1% of rdg ±2D
3mA	1µA	±1.2% of rdg ±2D
30mA	10µA	±1% of rdg ±2D
300mA	100µA	±1.2% of rdg ±2D
20A	10mA	±2% of rdg ±3D

Overload Protection: µA, mA = 1A 240/250V, 20A = 13A 240/250V (readings over 10A max., 30 sec.)

Voltage Drop: 200mV on 300µA, 30mA ranges; 2V all others

AC Voltage

Range	Resolution	Accuracy
3V	1mV	±1.3% of rdg ±5D
30V	10mV	±1.3% of rdg ±5D
300V	100mV	±1.3% of rdg ±5D
750V	1V	±1.3% of rdg ±5D

Frequency Range: 3V on 40Hz - 300Hz; 40Hz - 500Hz all others

Input Impedance: 10MΩ on all ranges

Overload Protection: 770V AC RMS or 1100Vpk (15 sec.)

AC Current

Range	Resolution	Accuracy
300µA	0.1µA	±1.5% of rdg ±3D
3mA	1µA	±1.5% of rdg ±3D
30mA	10µA	±1.5% of rdg ±3D
300mA	100µA	±2% of rdg ±3D
20A	10mA	±2.5% of rdg ±5D

Frequency Range: 40Hz - 500Hz

Overload Protection: µA, mA = 1A 240/250V, 20A = 13A 240/250V (readings over 10A max., 30 sec.)

Voltage Drop: 200mV on 300µA, 30mA ranges; 2V all others

Resistance

Range (Lo-Power Ω)	Resolution	Accuracy
300Ω	0.1Ω	±1% of rdg ±4D
3KΩ	1Ω	±0.75% of rdg ±2D
30KΩ	10Ω	±0.75% of rdg ±2D
300KΩ	100Ω	±0.75% of rdg ±2D
3MΩ	1KΩ	±1.5% of rdg ±3D
30MΩ	10KΩ	±2.5% of rdg ±5D

Lo-Power Ω open circuit 1.3V

Overload Protection: 600VDC or 600V AC RMS (10 sec.)

Diode Test

Voltage: 3.3V @ 1.5mA max

Continuity Test

Beeper Response: <50Ω

Response Time: Instant

Delay Hold: *Allows "No-Hand" data hold operation*

**** Input Warning Beeper:*** *Eliminates incorrect test lead placement and selector switch settings*

Digital Multimeter

DM-80

- **Heavy Duty, Ideal For Plant/Industrial Maintenance**
- **Autoranging • 11 Functions, 39 Ranges**

- 0.3% Basic DC Accuracy
- 42 Segment Bar Graph
- 4000 Count LCD
- Min./Max.
- Data Hold
- Memory
- Capacitance
- Frequency
- Temperature
- Diode Test
- Audible Continuity Test
- Overload Protection
- 1-Year Limited Warranty

Battery, Test Leads (ML-375), Thermocouple (TC-50P), Protective Holster and Operating Instructions Included

SPECIFICATIONS:

General

Display: *3 3/4 Digit LCD with polarity indicator, 42 segment bar graph, .5" high*

Auto Power Off: *30 minutes*

Overrange Indication: *Most significant digit blinks*

Operating Environment: *0°C to 40°C, <80% relative humidity*

Storage Environment: *-20°C to 60°C, <70% relative humidity*

Measurement Rate: *Digital 2 times per second, bargraph 20 times per second, capacitance 1 time per second*

Power: *9V alkaline or carbon zinc battery (NEDA 1604)*

Battery Life: *500 hours typical with alkaline cells*

Fuse: *2A/250V*

Dimensions, Weight: *3.25" wide x 7" long x 1.25" thick (82.6mm x 177.8mm x 31.8mm), net weight 11.5oz. (326g)*

DC Voltage

Range	Resolution	Accuracy
400mV	0.1mV	±0.3% of rdg ±1D
4V	1mV	±0.3% of rdg ±1D
40V	10mV	±0.3% of rdg ±1D
400V	100mV	±0.3% of rdg ±1D
1000V	1V	±0.3% of rdg ±3D

Overload Protection: 1000V pk (10 sec.)

DC Current

Range	Resolution	Accuracy
4mA	0.001mA	±1.5% of rdg ±2D
40mA	0.01mA	±1.5% of rdg ±2D
400mA	0.1mA	±1.5% of rdg ±2D
4000mA	1mA	±1.5% of rdg ±2D
10A	0.01A	±2% of rdg ±2D

Overload Protection: mA = 2A/250V, 10A = Unfused

AC Voltage

Range	Resolution	Accuracy
4V	1mV	±1.2% of rdg ±5D
40V	10mV	±1.2% of rdg ±5D
400V	100mV	±1.2% of rdg ±5D
750V	1V	±1.2% of rdg ±5D

Input Impedance: 10MΩ on all ranges

Overload Protection: 1000V pk (10 sec.)

AC Current

Range	Resolution	Accuracy
4mA	0.001mA	±2% of rdg ±5D
40mA	0.01mA	±2% of rdg ±5D
400mA	0.1mA	±2% of rdg ±5D
2000mA	1mA	±2% of rdg ±5D
10A	0.01A	±2% of rdg ±5D

Frequency Range: 50Hz - 500Hz

Overload Protection: mA = 2A/250V, 10A = Unfused

Resistance

Range	Resolution	Accuracy
400Ω	0.1Ω	±1% of rdg ±2D
4KΩ	1Ω	±0.7% of rdg ±2D
40KΩ	10Ω	±0.7% of rdg ±2D
400KΩ	100Ω	±0.7% of rdg ±2D
4MΩ	1KΩ	±0.7% of rdg ±2D
40MΩ	10KΩ	±2% of rdg ±5D

Overload Protection: 250V DC or peak AC,10 sec.

Capacitance

Range	Resolution	Accuracy
4nF	0.001nF	±5% of rdg ±2D
40nF	0.01nF	±5% of rdg ±2D
400nF	0.1nF	±5% of rdg ±2D
4μF	1nF	±5% of rdg ±2D
40μF	10nF	±5% of rdg ±2D

Frequency Measurement

Range	Resolution	Accuracy
100Hz	0.001Hz	±1% of rdg ±10D
1000Hz	0.1Hz	±1% of rdg ±10D
10kHz	1Hz	±1% of rdg ±10D
100kHz	10Hz	±1% of rdg ±10D
1000kHz	100Hz	Not Specified

Temperature Measurement

Range: 0°F to 2000°F

Resolution: 1°F

Accuracy: 0°F to 225°F (±5° ±2D)
225°F to 2000°F (±3% of rdg)

Diode Test: 3.2V

Continuity Test (Audible)

Beeper Response: <40Ω

Response Time: Instantly

ECG®

NTE® ELECTRONICS, INC.

Digital Capacitance Meter

CX-920A

- **A "Must" For Trouble Shooting and Circuit Design**
- **Measures To 20mF (20,000µF)**
- **Portable, Battery Operated**

- 0.1pF to 20mF (20,000µF), 9 Ranges
- 0.5% Basic Accuracy
- 3 1/2 Digit LCD, 0.55" H
- Zero Adjustment
- Input Protected
- Low Battery Indicator
- Overrange Indicator
- Rotary Range Switch
- Rugged Construction
- Tilt Stand
- 1-Year Limited Warranty

Battery, Test Leads (ML-920A), Spare Fuse and Operating Instructions Included

SPECIFICATIONS:

General

Display: *3 1/2 Digit LCD, 0.55" high*

Overrange Indication: *A "1" is displayed with the 3 least significant digits blanked*

Operating Environment: *0°C to 50°C, <70% relative humidity*

Storage Environment: *-20°C to 60°C, <80% relative humidity with battery removed*

Temperature Coefficient: *0.1 x specified accuracy per °C, which is only applicable for the temperature range of <18°C or >28°C*

Power: *9V alkaline or carbon zinc battery (NEDA 1604)*

Battery Life: *150 hours typical with carbon zinc cells*

Low Battery Indicator: *Symbol is displayed*

Dimensions, Weight: *2.8" wide x 6" long x 1.5" thick (70mm x 151mm x 38mm), net weight 7oz. (200g)*

Capacitance

Range	*Resolution*	*Accuracy*
200pF	0.1pF	±0.5% of rdg ±1D ±0.5pF
2000pF	1pF	±0.5% of rdg ±1D
20nF (.02µF)	10pF	±0.5% of rdg ±1D
200nF (.2µF)	100pF	±0.5% of rdg ±1D
2µF	1nF	±0.5% of rdg ±1D
20µF	10nF	±0.5% of rdg ±1D
200µF	0.1µF	±0.5% of rdg ±1D
2000µF	1µF	±2% of rdg ±1D
20mF (20,000µF)	10µF	±4% of rdg ±1D

Accuracy is based on an operating temperature of 23°C (73°F) at relative humidity up to 75%

Test Voltage

3.5V peak max., "+" input terminal voltage is always higher than "–" input terminal

Overload Protection

100mA/250V, fast blow fuse

Zero Capacitance Adjustment Range

Approx. ±20pF

Digital Infrared Thermometer

DIT-205

- **Pen-style IR thermometer fits easily in a pocket or purse for quick and easy surface temperature measurements**
- **Temperature Range: -27° to 428°F (-33° to 220°C)**
- **Accuracy: ±2% of reading or ±2°C**

- 0.1° resolution for accurate readings
- Selectable temperature units F/C
- 1:1 Optics (distance-to-spot size ratio)
- Emissivity preset to 0.95
- LCD display
- Non-contact
- Does not use a laser beam
- Metal alloy case
- Lithium batteries (2 LR44 included typically provide for 180 hours of continuous operation)
- Low battery indication
- Automatic power OFF after 15 seconds
- RoHS Compliant
- 1 Year Warranty
- Durable pocket clip

SPECIFICATIONS:

General

Measurement Range: *-27° to 428°F (-33° to 220°C)*
Ambient Operating Range: *32° to 122°F (0° to 50°C)*
Storage Temperature Range: *-4° to 149°F (-20° to 65°C)*
Accuracy: *±2% of reading or ±2°C*
Resolution at -9.9°~199.9°C: *0.1° F or °C*
Response Time (90%): *1 second*
D:S: *1:1*
Emissivity: *Fixed 0.95*
Update Frequency: *1.4Hz*
Dimensions: *3.25 x 0.5 inches*
Wave Length Response: *5-14um*
Weight (with battery): *2 oz*
Batteries: *2 LR44 (included)*
Battery Life: *180hr (typical)*

Where can I use an infrared thermometer?

Kitchen:
- *Temperatures of all cooking surfaces*
- *Microwaved foods*
- *Dishes in microwave heat differently*
- *Baby formula bottles*
- *Baby foods*
- *Teflon fry pans actually become toxic at high temperatures*
- *Appliance performance: freezer and oven temperature*
- *Dishwasher water temperatures*
- *Hot oil temperatures in deep fryers*
- *Cookie sheet temperature*
- *Crock pot accuracy*
- *Melting chocolate*
- *Candle making*
- *Home beer brewing*
- *Fondues: cheese, oil, chocolate*
- *Serving temperatures of beer and wine*
- *Pizza ovens*

Safety:
- *Child car seats*
- *Bath water: especially children and infants*
- *Check playground equipment: slides and swings*
- *Beach sand*
- *Benches and chair temperatures*

Health:
- *Foot temperatures for diabetics*
- *Muscle tears and sprains*
- *Arthritic areas*
- *Horses: bad shoe, muscle tear, scar tissue*
- *Livestock breeding area temperatures*
- *Food serving quality at buffets*
- *Damp spots where mold and mildew grow*

Around the home:
- *Doors and windows for drafts*
- *Air conditioner air temperature*
- *Furnace registers*
- *Flue temperature in heating systems*
- *Ballasts in florescent lighting*
- *Dimmer switches for overheating*
- *Lightbulb before unscrewing*
- *Wood stoves flue temperature and ducts*
- *Fireplace logs (gas burn)*
- *Fuses and breakers for possible shorts*
- *Room temperatures (scan walls for heat layers)*
- *Reptile cages and environment*
- *Aquarium water temperatures*
- *Air conditioning: supply and return registers*
- *Surface temperature before painting*

Outdoor uses:
- *Verify BBQ surface temperatures*
- *Water temperatures in pools, spas and hot tubs*
- *Lawns for heat stress and areas sprinkler missed*
- *Outdoor fire pits and tool temperatures*
- *Small stoke engines: mowers, snow blowers*
- *Driveway temperature before recoating surfaces*

Automotive, Hobby, Racing:
- *Engine check - spark plugs - manifold*
- *Air conditioning and heating*
- *Radiator blockages*
- *Brake temperatures overheating*
- *Catalytic converters blockage*
- *Tire temperatures - under/over inflated*
- *Track temperatures match correct tires*
- *Engine temperatures in remote control vehicles*

Handheld Digital Thermometer

DT-205

- **Perfect For - HVAC/Industrial Maintenance - Techs - Hobbyist**
- **Pocket Size - Light Weight**
- **Built-In Retractable 3.5" Probe**
- **°C or °F Switchable**

- ±1°C, ±2°F Accuracy
- Up to 0.1° Resolution
- 3.5 Digit LCD, 0.55" H
- Rugged Construction
- Low Battery Indicator
- Overrange Indicator
- 90 Day Limited Warranty

Battery, Carrying Case and Operating Instructions Included

DESCRIPTION:

The DT-205 is a pocket-sized Digital Thermometer with a built-in thermocouple probe that retracts into the case. It possesses features of more costly instruments such as switchable Fahrenheit and Celsius scales, up to 0.1° resolution and a large easy-to-read 3 1/2 digit display. Measurement range is -50°C to 150°C and -58°F to 302°F. Ruggedly constructed and fast acting, the DT-205 is ideally suited for set up, adjustment and monitoring heating and cooling systems plus checking for heat loss.

SPECIFICATIONS:

General

Display: *3 1/2 Digit LCD, 0.5" high.*

Overrange Indication: *A "1" or "–1" is displayed with the 3 least significant digits blanked*

Measurement Rate: *3 times per second*

Operating Environment: *0°C to 35°C, <90% relative humidity, 35°C to 50°C <70% relative humidity*

Storage Environment: *-40°C to 60°C, with battery removed*

Power: *9V alkaline or carbon zinc battery (NEDA 1604)*

Battery Life: *300 hours typical with carbon zinc cells*

Low Battery Indicator: *Display indicates "Bat"*

Dimensions, Weight: *1.8" wide x 5.6" long x 1.1" thick (46mm x 142mm x 28mm) Net weight 5.6oz. (142g) with battery*

Celsius

Range	Resolution	Accuracy
-50°C to 150°C	0.1°C	±3° @ -50° to 0° ±1° @ 0° to 100° ±3° @ 100° to 150°

Temperature Coefficient: <0.1 x the applicable accuracy specification per °C, from 0°C to 18°C and 28°C to 50°C

Fahrenheit

Range	Resolution	Accuracy
-58°F to 302°F	1°F	±6° @ -58° to 32° ±2° @ 32° to 212° ±6° @ 212° to 302°

Temperature Coefficient: <0.1 x the applicable accuracy specification per °F, from 32°F to 64.4°F to 122°F

PR-21 Logic Probe/Pulse Detector

- **Perfect Trouble Shooting Tool**
- **20MHz Pulse Detector**

- **Switch Selectable**
  - **Pulse Detection or Memory**
  - **TTL/CMOS**
- **Audible Logic State Tones**
- **Input Impedance 1MΩ**
- **Detects 30ns Pulses**
- **Operates to 20MHz**
- **Color Coded LEDs**
- **Circuit Powered**
- **90-Day Limited Warranty**

DESCRIPTION:

The PR-21 is a versatile instrument for troubleshooting and analyzing logic circuits. Features include visual indication of pulse level and pulse presence, pulse memory, plus an audible, two-tone, logic state indicator. The probe responds to pulses as narrow as 30ns and pulse trains up to 20MHz, and is compatible with TTL, DTL, RTL, HTL, CMOS and MOS. It is also compact and light weight. Three color-coded LEDs indicate pulse presence and high/low logic states. Visual indication is complemented by audible tones of two distinctly different frequencies to distinguish the logic states easily. The PR-21 Logic Probe is a valuable servicing aid, especially when used in conjunction with the PR-31 Logic Pulsar.

SPECIFICATIONS:

Input Signal Frequency: *20MHz Max*
Minimum Detectable Pulse Width: *30ns*
Input Impedance: *1MΩ*
Operating Supply Range (Vcc): *4V DC Min., 18V DC Max.*

TTL Logic "1" (Hi LED)	*>2.3 ±0.2V DC*
Logic "0" (Lo LED)	*<0.8 ±0.2V DC*
CMOS Logic "1" (Hi LED)	*>70% Vcc ±10%*
Logic "0" (Lo LED)	*<30% Vcc ±10%*

Maximum Allowable Supply Voltage (Vcc): *± 20V DC*
Power Supply Protection: *±20V DC Max. (15 sec.)*
Signal Input Protection: *±220V AC/DC Max. (15 sec.)*
Pulse Indicator Flash Time: *500ms*
Operating Environment: *0°C to 50°C, <80% relative humidity*
Storage Environment: *-20°C to 65°C, <75% relative humidity*
Dimensions, Weight: *8.2" long x 0.7" dia. (21cm x 1.8cm) net weight 1.6 oz. (45g)*

PR-31 Logic Probe/Pulse Generator

- **Trouble Shooting/Design Tool**
- **Pulse Generator**

- Use with Companion Logic Probe PR-21 or Scope
- Compatible with Most Logic Families
- Signal Injector (Square Wave)
- Switchable 0.5/400Hz Pulse Rate
- Sources/Sinks 100mA Pulses
- External Sync Input
- Circuit Powered
- 90-Day Limited Warranty

DESCRIPTION:

The PR-31 Pulse Generator is used to inject a signal into a logic circuit without having to remove the IC or open the circuit. Using the companion PR-21 Logic Probe you can detect component failures or wiring errors. The average power of the injected signal is limited by supply voltage (Vcc) of the circuit under test, and with its short duration pulses, will not damage circuit components.

The PR-31 Logic Pulsar produces a 10µs signal at a 100 mA load and can be switched to either 0.5Hz or 400Hz. It is also capable of generating a square wave equal to approximately 90% of the supply voltage (Vcc) at the square wave output terminal so that an oscilloscope can be used to observe and trace signals. The PR-31 Logic Pulsar also has an external sync input, which enables the user to synchronize the pulse output with an external signal, such as a computer clock circuit.

SPECIFICATIONS:

Input Signal Frequency: *20MHz Max*
Minimum Detectable Pulse Width: *30ns*
Input Impedance: *1MΩ*
Operating Supply Range (Vcc): *4V DC Min., 18V DC Max.*

TTL Logic "1" (Hi LED)	>2.3 ±0.2V DC
Logic "0" (Lo LED)	<0.8 ±0.2V DC
CMOS Logic "1" (Hi LED)	>70% Vcc ±10%
Logic "0" (Lo LED)	<30% Vcc ±10%

Maximum Allowable Supply Voltage (Vcc): *± 20V DC*
Power Supply Protection: *±20V DC Max. (15 sec.)*
Signal Input Protection: *±220V AC/DC Max. (15 sec.)*
Pulse Indicator Flash Time: *500ms*
Operating Environment: *0°C to 50°C, <80% relative humidity*
Storage Environment: *-20°C to 65°C, <75% relative humidity*
Dimensions, Weight: *8.2" long x 0.7" dia. (21cm x 1.8cm) net weight 1.6 oz. (45g)*

Output Pulse Rate: *0.5/400Hz*
Output Pulse Width: *10-15µs*
Output Pulse Amplitude: *Approx. 90% Vcc*
Output Current: *100mA Sink/Source*
Square Wave Output Current: *5mA Sink/Source*
Sync Input Impedance: *1MΩ*
Power Supply Range (Vcc): *5-15V DC*
Overload Protection:

Power Supply	20V DC Max. (30 sec.)
Sync Input	120V DC Max. (30 sec.)
Test Point	35V DC Max. (30 sec.)

Operating Environment: *0°C to 50°C, <80% relative humidity*
Storage Environment: *-20°C to 65°C, <75% relative humidity*
Dimensions, Weight: *8.2" long x 0.7" dia. (21cm x 1.8cm) net weight 1.4oz. (40g)*

Oscilloscope Probes

PR-60A, PR-100, PR-200B

- **High Quality At Economical Prices**
- **Compatible with Popular Scopes**
- **Switchable X1, X10 and Ground Reference**
- **Stable Calibration**
- **Ground Clip Rotates 360°**
- **Pin-Point Probe Tip**
- **90-Day Limited Warranty**

PR-60A

- 60 MHz Bandwidth

SPECIFICATIONS:

Switch Function

X1:
Attenuation: 1:1
Bandwidth: DC to 15MHz
Input Capacitance: 45pf

X10:
Attenuation: 10:1
Bandwidth: DC to 60MHz
Compensation Range: 10 to 35pF
Input Capacitance: 15pF
Input Resistance:
10MΩ, with Oscilloscope of 1MΩ Input Resistance

Working Voltage: *600V (DC + peak AC)*
Operating Temperature: *0°C to +70°C*
Coaxial Cable Length: *47.24" (1200mm)*

Accessories Supplied

Ground Lead and Clip
Retractable Hook

Replacement Accessories

PR-200BGL *- Ground Lead and Clip*
PR-200BSH *- Retractable Hook*
PR-200BKT Accessory Kit: *Ground Lead and Clip; IC Tip; BNC Adapter; Retractable Hook; Insulating Tip; Trimmer Tool; Replacement Tip*

PR-100

- 100 MHz Bandwidth

SPECIFICATIONS:

Switch Function

X1:
Attenuation: 1:1
Bandwidth: DC to 10MHz
Rise Time: 35ns
Input Capacitance: 75pf + Oscilloscope Input Capacitance

X10:
Attenuation: 10:1
Bandwidth: DC to 100MHz
Rise Time: 3.5ns
Compensation Range: 15 to 50pF
Input Resistance:
10MΩ, with Oscilloscope of 1.0MΩ Input Resistance
Input Capacitance: 11pF

Reference Position: *Tip Grounded via 9MΩ, Oscilloscope Input Grounded*
Working Voltage: *600V (DC + peak AC)*
Operating Temperature: *0°C to +70°C*
Coaxial Cable Length: *57" (1478mm)*

Accessories Supplied

Ground Lead and Clip
IC Tip
BNC Adapter
Retractable Hook
Insulating Tip
Trimmer Tool

Replacement Accessories

PR-200BGL *- Ground Lead and Clip*
PR-200BSH *- Retractable Hook*
PR-200BKT Accessory Kit: *Ground Lead and Clip; IC Tip; BNC Adapter; Retractable Hook; Insulating Tip; Trimmer Tool; Replacement Tip*

PR-200B

- 200 MHz Bandwidth

SPECIFICATIONS:

Switch Function

X1:
Attenuation: 1:1
Bandwidth: DC to 5MHz
Rise Time: 75ns
Input Capacitance: 60pf + Oscilloscope Input Capacitance

X10:
Attenuation: 10:1 (±3%)
Bandwidth: DC to 200MHz
Rise Time: 1.8ns
Compensation Range: 10 to 60pF
Input Resistance:
10MΩ, with Oscilloscope of 1.0MΩ Input Resistance
Input Capacitance: 14pF

Reference Position: *Tip Grounded via 9MΩ, Oscilloscope Input Grounded*
Working Voltage: *600V (DC + peak AC)*
Operating Temperature: *0°C to +70°C*
Coaxial Cable Length: *47.2" (1200mm)*

Accessories Supplied

Ground Lead and Clip
IC Tip
BNC Adapter
Replacement Tip
Retractable Hook
Insulating Tip
Trimmer Tool

Replacement Accessories

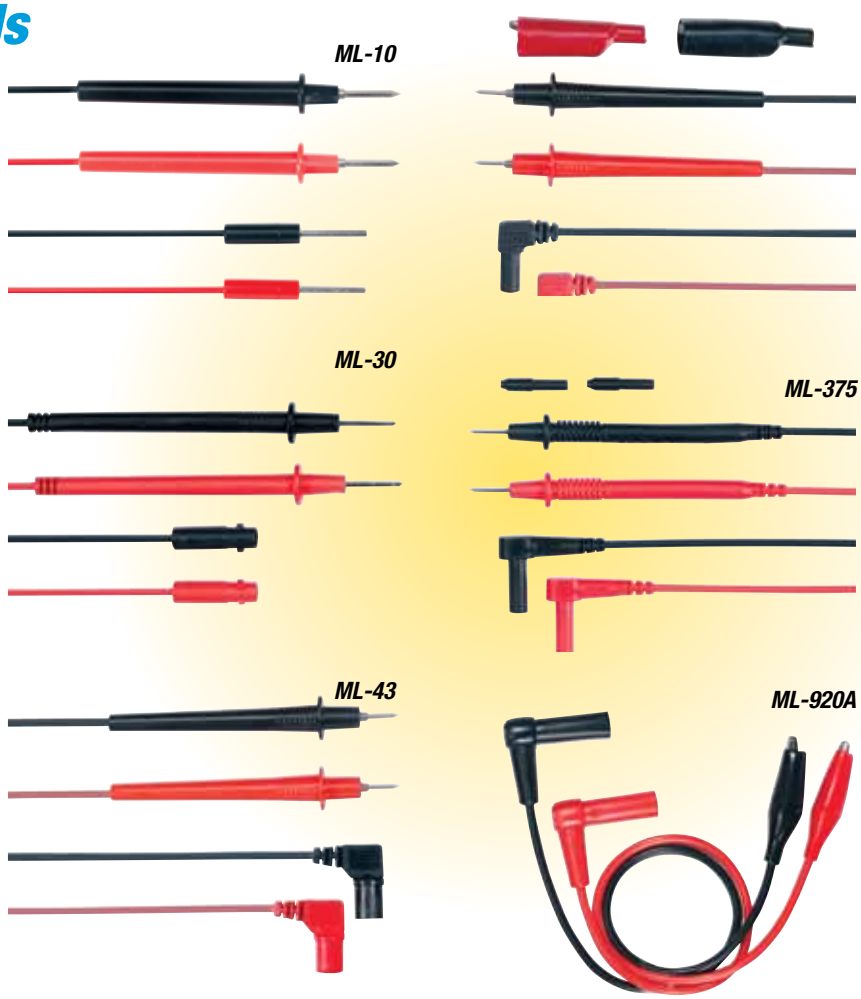
PR-200BGL *- Ground Lead and Clip*
PR-200BSH *- Retractable Hook*
PR-200BKT Accessory Kit: *Ground Lead and Clip; IC Tip; BNC Adapter; Retractable Hook; Insulating Tip; Trimmer Tool; Replacement Tip*

Replacement Test Leads

• Flexible • Heavy Duty • Insulated

DESCRIPTION:

Meter Model No.	Part No.	Length (Nom.)
AM-10	ML-10	26.5 in.
AM-30	ML-43	43 in.
FET-43		
DM-37	ML-370	48 in. (Includes alligator clips)
AM-22	ML-375	42 in.
DM-21		
DM-50		
DM-59		
DM-78A		
DM-80		
DM-500		
CX-920A	ML-920A	13 in.



MULTIMETER TEST LEADS - CROSS REFERENCE

Meter Mfg./ Model No.	ECG Repl.
Amprobe	
AM-4A	ML-43
AM-4B	ML-370
AM-1200	ML-375
AM-1280	ML-375
B&K	
213	ML-43
340A	ML-30
350	ML-370
377	—
388HD	ML-370
388A	ML-375
389	ML-375
390	ML-375
391	ML-375
815	ML-375
2703	—
2703A	ML-370
2704	—
2704A	ML-370
2706	ML-370
2707	ML-370
2806	ML-370
2807	ML-370
2816	ML-370
2817	ML-370
2845	ML-370
2860	ML-375
2905	ML-370
2906	ML-370
2907	ML-370
2911	ML-370
2912	ML-370
2940	ML-370
2945	ML-370

Meter Mfg./ Model No.	ECG Repl.
Beckman/ Wavetek	
151	ML-370
152	ML-370
153	ML-370
300	ML-370
310	ML-370
320	ML-370
330	ML-370
350	ML-370
360	ML-370
3000	ML-43
3010	ML-43
3010UL	ML-43
3020	ML-43
3020B	ML-43
3030	ML-43
3050	ML-370
3060	ML-370
4410	ML-370
DM10	—
DM15B	—
DM20L	—
DM23	—
DM25L	—
DM25XL	—
DM27XL	—
DM800	ML-370
DM850	ML-370
DM-10	ML-43
DM-40	ML-370
DM-45	ML-370
DM-50	ML-370
HD-100	ML-370
HD-110	ML-370

Meter Mfg./ Model No.	ECG Repl.
HD-130	ML-370
HD-140	ML-370
RMS225	ML-370
TECH300	ML-43
TECH310	ML-43
TECH320	ML-43
TECH330	ML-43
TECH350	ML-370
TECH360	ML-370
Extech	
380165	—
380166	—
380168	ML-375
308196	ML-375
380198	ML-375
380451	ML-370
380650	ML-30
380776	ML-370
380911	ML375
380972	ML-370
383487	ML-370
Fluke	
10	ML-370
11	ML-375
12	ML-375
21	ML-375
23	ML-370
25	ML-370
27	ML-370
29	ML-370
37	ML-370
45	ML-370
70	ML-370
73	ML-370

Meter Mfg./ Model No.	ECG Repl.
75	ML-370
77	ML-370
79	ML-370
83	ML-370
85	ML-370
87	ML-370
8020B	ML-370
8021B	ML-370
8022B	ML-370
8024B	ML-370
8026B	ML-370
8050A	ML-370
8060A	ML-370
8062A	ML-370
Goldstar	
DM-1835	ML-370
DM-6335	ML-370
DM-7143	ML-370
DM-7333	ML-370
DM-8243	ML-370
DM-8433	ML-370
Heathkit	
2208	ML-30
2311	—
2372	—
2374	—
2380	ML-375
SM-77	ML-370
H. P.	
E2373A	ML-370
E2377A	ML-370
E2378A	ML-370

Meter Mfg./ Model No.	ECG Repl.
Hitachi	
3510	ML-370
3525	ML-370
3550	ML-370
Mercer	
9120	ML-43
9301	ML-370
9370	ML-370
9401	ML-370
9702	ML-30
Protek	
301U	—
505	ML-375
A800	ML-10
A802	ML-375
A803	ML-43
A-400	ML-43
A-420S	ML-43
A-423	ML-43
A-423	TC-50P
A-445	ML-43
A-450	ML-43
D-901	—
D-902	ML-370
D-906	ML-370
D-910F	ML-370
D-910F	TC-50P
D-927	ML-370
D-937	ML-370
D-945	ML-370
D-981	ML-370
D-981	TC-50P
D-982	ML-370

Meter Mfg./ Model No.	ECG Repl.
Philips ECG	
AM-10	ML-10
AM-20	ML-43
AM-22	ML-375
AM-30	ML-43
CM-30	ML-30
CM-33	—
CX-920	—
CX-920A	ML-920A
DM-21	ML-375
DM-25	—
DM-26	—
DM-27	—
DM-50	ML-375
DM-51	—
DM-53	—
DM-55L	—
DM-59	ML-375
DM-71	ML-370
DM-74	ML-370
DM-75	—
DM-76	ML-370
DM-78	ML-375
DM-78A	ML-375
DM-80	ML-375
DM-300	ML-370
DM-305	ML-375
DM-305A	ML-375
DM-310	ML-370
DM-410	ML-370
DM-500	ML-375
FET-43	ML-43
Scope	
DCM-602	—

Meter Mfg./ Model No.	ECG Repl.
DVM-634	ML-43
DVM-636	ML-43
DVM-638	ML-43
DVM-642	ML-375
DVM-6005	—
LCR-680	—
Simpson	
470	ML-370
474	ML-370
Soar	
3025	ML-370
3030	ML-370
3050	ML-370
3200	ML-370
3210	ML-370
3220	ML-370
3230	ML-370
3430	ML-370
3450	ML-370
3510	ML-370
3520	ML-370
4010	ML-370
4020	ML-370
4030	ML-370
4040	ML-370
4050	ML-370
5025	ML-370
5026	ML-370
5030	ML-370
A. W. Sperry	
DM-3010	ML-370
DM-4000A	—
DM-6510	ML-370

Meter Mfg./ Model No.	ECG Repl.
DM-6910	ML-370
DM-7010	ML-370
DM-8010	ML-370
DSA-2002	ML-370
DSA-2002P	ML-370
DSA-2003	ML-370
DSA-2007	ML-370
DSA-2007A	ML-370
DSA-2009	ML-370
SP-170B	ML-43
SP-250B	ML-43
SPR-300+	ML-370
SPR-931	ML-370
TD-2608	ML-370
TD-2608A	ML-370
Tektronix	
DM250	ML-375
DM251	ML-375
DM253	ML-375
DM254	ML-375
DM255	ML-370
DM256	ML-370
DM257	ML-370
Triplett	
50	ML-370
3350	ML-370
3360	ML-370
3500	ML-370
3550	ML-370
3560	ML-370
3565	ML-370
4700	ML-370
4750	ML-370
4800	ML-370

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