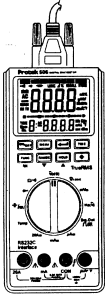


# TEST EQUIPMENT



**FLUKE**

fluke.com



**ACK'S MOST POPULAR METER** — The best selling inexpensive meter we sell is the **Triplett 9005**. It has a large, 1", easy to read 3½ digit LCD, is fused at 10A, reads frequency, transistor check, and comes complete with a red rubber holster. The price is right! Call for details. **9005 TRIPLETT.**

The **second most popular** inexpensive meter at Ack is the **auto ranging 9025 Triplett**. Digital, 3¾ digit, 33 segment bargraph, DCV to 1KV, ACV to 750V, AC/DC A to 10A, resistance to 32.6 megs, frequency to 200 kHz, capacitance test, continuity test, diode check, transistor check, data hold, double insulated case, overload protection, auto power off, CAT 1-3 rated, red rubber boot. **9025 TRIPLETT**



DMMs										
•Fluke •Protek •Meterman •Triplett										
MODEL #	DCV %	AUTO OR MANUAL	TRUE RMS	Peak Min/Max	uF	Hz	TEMP	MAX AMPS	OTHER FEATURES	CARRY CASE
1101 TRIPLETT	0.5% DCV	MANUAL	no	Data Hold	no	no	1832° F	10A	•Back lit •Transistor test	
9005 TRIPLETT	0.5% DCV	MANUAL	no	no	no	no	no	10A	•Huge 1" display •Transistor test •Comes w/holster	
9025 TRIPLETT	0.3% DCV	AUTO		Data Hold	32 uF	200 kHz		10A	•Transistor test •Auto power off	
506 PROTEK	0.5% DCV	AUTO	RMS	yes	100 uF	10 MHz	1200° C	20A	•4000 count •RS232 port •Decibel meas. •Auto off •Inductance	
608 PROTEK	0.05% DCV	AUTO	RMS	yes	5000 uF	500 kHz	1200° C	10A	•50,000 count •RS232 port •zener diode test •Back lit	
DM2 METERMAN	0.8% DCV	MANUAL	no	no	no	no	no	0.2A	•inexpensive	VC12
15XL METERMAN	0.5% DCV	MANUAL	no	no	no	no	no	10A	•w/logic probe	VC20
320B METERMAN	0.1% DCV	MANUAL	no	no	no	no	no	10A	•RF shielded •10M ohm input	VC201
2015 METERMAN	0.25% DCV	AUTO	RMS	yes	40 uF	400 kHz	no	20A	•4000 count •Comes w/holster	VC221
FLUKE 73-3	0.3	AUTO	no	touch hold only	no	no	no	10A	•3200 counts	C70Y FLUKE
FLUKE 87-3	0.05% DCV	AUTO	RMS	Y + touch hold	5K uF	199 kHz	no	10A	•EMI Shielded •Back lit •20,000 count	C25 FLUKE
FLUKE T5-1000 current tester	1.5	AUTO	no	no	no	no	no	100A	•1K volts •1K ohms •open jaw clamp	H5 FLU holster
FLUKE 123/003 O'scope		AUTO	RMS	TrendPlot	yes	dual 20 MHz	no		•Storage Scope •5000 count dmm •rs232 port	SCC-120
FLUKE 177	0.09	AUTO	RMS	yes	999 uF	99.99 kHz	no	10A	•Back-lit •6000 count •1 meter drop	C25 FLUKE
FLUKE 179	0.09	AUTO	RMS	yes	999 uF	99.99 kHz	752° F	10A	•Back-lit •6000 count •1 meter drop	C25 FLUKE
FLUKE 189	0.025	AUTO	RMS	yes	50 uF	999.9 kHz	2462° F	10A	•50,000 count •3 day memory	C125 FLUKE
FLUKE 337 clamp-on	1% ACV	AUTO	RMS	Touch hold only	-	400 Hz	-	999 ACA	Clamp-On AC Meter	

# TEST EQUIPMENT



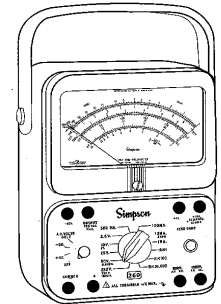
ANALOG HANDHELD MULTI-METERS •great for monitoring fluctuation trends & rates		
MODEL	FEATURES	CARRYING CASE
<b>A-413 PRO</b>	Really cheap pocket size tester. 4 function, 12 position, 16 ranges, 2000 ohms/DCV.	-
<b>310 TRP</b>	Favorite hand-held VOM in the industry. 18 ranges, 3% DCV accuracy, drop resistant. 5K ohms/AVC. 2¾ x 1-5/16 x 4¼".	10-1258 TRP 10-1456 TRP 10-1608 TRP
<b>310-C TRP</b>	Same as 310 TRP except 15K ohm/ACV.	10-1258 TRP 10-1456 TRP 10-1608 TRP
<b>160 SIM</b>	Handi-VOM, smallest of Simpson's shock resistant VOM's. Taut band self-shielding annular movement, no expensive chips to wipe out by voltage transients. 2% DCV accuracy. ABS & phenolic case, 4.6 x 3.3 x 1.8".	02225 SIM
<b>260-6XL SIM</b>	Rugged, high performance VOM. Conventional & low power ohms (to accurately conduct in-circuit tests without risk to components or causing digital circuits to switch states), and a wide range coverage. 2% DCV accuracy. 28 ranges plus dB. Black ABS impact plastic case, 7 x 5¼ x 3.1".	00805 SIM 00832 SIM
<b>260-8 SIM</b>	General Purpose, high quality, lab accuracy (2% DCV) w/rugged construction for field use. 20k ohm/DC volt sensitivity. Taut band self-shielding annular movement. Mirrored scale. Black phenolic case, 7 x 5½ x 3.1".	00805 SIM 00832 SIM
<b>260-8RT SIM</b>	Same as 260-8 but with roll top case (-RT).	00805 SIM 00832 SIM
<b>260-8Xi SIM</b>	Same as 260-8 but with yellow ABS plastic case for increased drop protection.	00805 SIM 00832 SIM
<b>260-8P SIM</b>	Same as 260-8 but with additional relay overload protection circuit (push-button) and audible continuity checking (-P).	00805 SIM 00832 SIM
<b>260-8PRT SIM</b>	Same as 260-8P but with roll top case (-RT).	00805 SIM 00832 SIM
<b>260-8XPi</b>	Same as 260-8P but in yellow ABS plastic case for increased drop protection.	00805 SIM 00832 SIM
<b>301 SIM</b>	Autoranging palmtop VOM. Hi impedance input, auto polarity, over 25 ranges, auto power off, compact clamshell design. 3% DCV accuracy. 4¼ x 5 x 1-7/8".	45005 SIM
<b>60 TRP</b>	Extra rugged (will withstand an accidental drop up to 5'). Overload protected. Approved by the Mine Safety & Health Administration. 28 ranges, including 5 dB ranges. Taut-band meter, mirrored scale. Orange thermoplastic case. 3¼ x 5¼ x 7¼".	10-2739 TRP



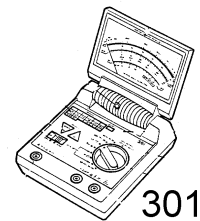
310-C



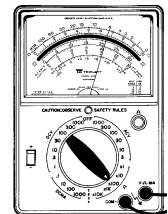
SIMPSON 160



SIMPSON 260

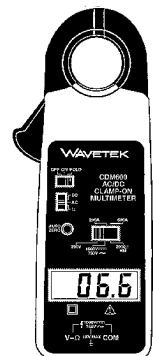


301



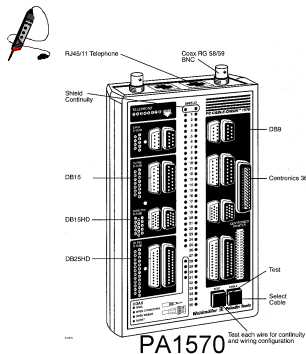
60 TRIPLETT

CLAMP-ON MULTIMETERS, DIGITAL					
MODEL	337 FLUKE	AC60 WAVE	AC68 WAVE	AD40A TRP	C45 TRP
# DIGITS	4 DIGIT	3¾ DIGIT	3½ DIGIT		3½ DIGIT
CURRENT	1000A AC & DC	600A AC	600A AC & DC	400A AC	600A AC
VOLTS	600V AC & DC	600V AC	600V AC & DC	-	750 ACV
RESISTANCE	6K ohms	40K ohms	4K ohms	-	2K ohms
FEATURES	True RMS Backlight 5 - 400 Hz Hold, Min/Max	AUTO POWER OFF AUTO RANGING	PEAK HOLD & FREQ to 20k Hz	Small Auto-Ranging Comes w/case	DATA HOLD & FREQUENCY to 5 MHz



800-338-4218 ACK Birmingham 205-322-0588

# TEST EQUIPMENT



PA1570

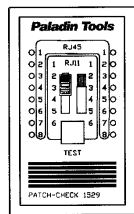
•**AUDIO CABLE TESTER** — Multiple cable test system: XLR, 1/4", BNC, RCA, DIN, 1/8", Speak-on. LED indicators. **MCT-7 WHIRLWIND**

•**AUDIO SWEEP GENERATOR** — 20 Hz to 150K Hz. Banana jack output. **GF-800 ELE**

•**CABLE-CHECK, PC** — Tests standard PC cable for continuity & wiring configuration. Identifies open, shorted, and cross connected wires. Maps both ends of the cable. Works for RJ11/45 telephone, RG58/59 BNC coax, DB9 male or female, DB15 male or female, DB15 high density male or female, DB25 male or female, Centronics 36. **400-007 ECL**

•**CABLE LENGTH METER** — Measures single conductor cable length, already installed or on the spool. **JTE1001 NTE**

•**CABLE TESTER, RJ45 LAN & RJ11** — "Patch-Check" verifies point-to-point wiring of RJ45 & RJ11 patch cables. 8 LEDs identify the location of each conductor & checks continuity. **PA1529 PALADIN**



PA1529

•**CAPACITANCE/RESISTANCE METER** — Large display, 200pf to 20 mF, 0.5% accuracy (zero adjust), 20M ohm, continuity beeper, diode test. **CR50 WAVETEK**

•**CIRCUIT IDENTIFIER, "BREAKER SNIFF-IT"** — To match circuit breaker with AC outlet or fixture. Transmitter sends signal across the line & indicates the presence of voltage. Receiver makes loud audible tone & lights LED to confirm. **9650 TRIPLETT**

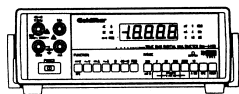
•**COMPONENTS TESTER (LIL' BITTY TESTER)** — The GO/NO tester that fits in a shirt pocket. Test continuity, detect transistor leakage, detect a DC voltage, detect the polarity of a DC voltage, test discrete components (transistors, FET's, SCR's, bipolar LED's, incandescent lamps, triacs, diodes, bridge rectifiers, LED's). Easy to use with simply instructions. **LBT-2** (not to be confused with a BLT!).

•**CURRENT CLAMPS (MULTIMETER ACCESSORY)** — Ack stocks a full array of current clamps (**CT231, CT232, CT233, CT234A**) designed for use with WAVETEK/METERMAN meters. Call us for details.



CT234A

•**DMM, BENCH TOP** — Bench testing of voltage, ohms, and amps is easy and precise with Wavetek's new BDM40. This 4½ digit (20,000 counts) digital multimeter features true RMS (AC or AC+DC coupling) measurement capabilities to assure accuracy regardless of the types of waveforms. The BDM40 features high resolution at a low cost, which makes it ideal for production test, QA test, depot service, and university and school labs. Measurement capabilities include voltage from 1 microV to 1200VDC and to 1000VAC, current from 10 microA to 20A, and resistance from .01 ohm to 20M ohm.. Diode test is provided on the 2K ohm range. The interlocking push buttons on the front panel provide easy selection of functions and ranges. Bold labels on the input jacks increase visibility and offer an added safety, as does the fully fused 2A jack. The BDM40's full 360° adjustable tilt bail and LED display maximize readability for most any bench application. Each meter comes with standard test leads, power cord, and operator's manual. A full line of optional probes, current clamps, and test leads is available to meet your application needs. **BDM40 WAVETEK/METERMAN**

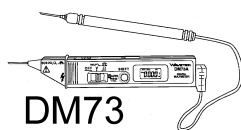


•**DMM, CREDIT CARD SIZE** — These are the size of a pocket calculator. 3½ digit, autoranging, diode test, continuity test, data hold, bargraph, auto power off, moderate cost. **DM78A WAVETEK 2030-C TRIPLETT**

•**DMM, PEN-TYPE** — Simple to use, and good for tight spots. One hand operation. 3½ digit, data hold, autoranging. **DM73 WAVETEK or 3526A TRIPLETT**



DM78



DM73

•**FIELD STRENGTH ANALYZER, RF** — See, hear, & analyze RF signals up to 2 Ghz, handheld. Will help you test, measure, install & maintain RF equipment. Battery operated, 100 KHz to 2060 MHz bandwith, built-in freq. counter, phase lock loop, RS232 interface, backlit LCD, audio output w/speaker, 160 scanned channel displays, memory, direct hard copy printouts, built-in battery charger. **3201 PROTEK**

•**FOX & HOUND I, WIRE TRACING SET** — Generates 3 distinct tones for wire tracing, line powered in tone mode, LED indicator for continuity, supplies “talk power” for communicating between handsets or powering a phone. Alligator clips & a modular plug allow quick connection. The HOUND can identify the FOX’s tone up to 12 inches away— this inductive tracer will aid in identification of wires without piercing their insulation. Can trace the FOX tone through dry wall, wood, and many other nonmetal surfaces. **3385 TRIPLETT** (complete set)

•**FOX & HOUND II** — Same as the above except that the HOUND has a volume control and an LED that changes intensity with signal strength (for noisy areas). Also, the HOUND is more stream lined for access to tight places. **3245 TRIPLETT** (complete set).

•**HIGH VOLTAGE PROBES** — Allows standard multimeters to measure up to 40K VDC. For multimeters with 10M ohm input impedance, order **HV231-10 WAVETEK**. For meters with 22M ohm input impedance, order **HV231-22 WAVETEK**.

•**HUMBUCKER** — Bucks hum on video lines; BNC connectors. **HUM-1 ADC**

•**LCR METER** — Inductance (200h), capacitance (2000 mF), and resistance meter w/22 user ranges, plus transistor & dual diode check. **LCR55 WAVETEK/METERMAN**

•**LOGIC PROBES: 17 & 25 MHz** — 17 MHz, Detects pulses as narrow as 30ns at frequencies up to 17 MHz. TTL or CMOS. **LP10A WAVETEK** 25 MHz, Measures TTL, DTL, RTL, CMOS, NMOS, & MOS logic levels at speeds up to 25 MHz and detects pulses as low as 30ns duration. **LP25 WAVETEK**

•**PUNCH DOWN TOOL** — Impact tool terminates wires on 66 & 110 clips. Spring loaded, fully adjustable. **PA3526 PAL** (tool only, no blade) **PA4527 PAL** (66 blade only, no tool) **PA4528 PAL** (110 blade only, no tool) **PA3540.1 PAL** (tool + both blades + leather pouch).

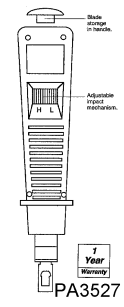
•**TELEPHONE PATCH-CHECK CONTINUITY TESTER** — For testing the continuity of telephone & computer data link wiring using RJ11 & RJ45 modular plugs. 16 LED display. **PA1529 PAL**

•**TEMPERATURE CONVERTER (DMM ACCESSORY)** — Universal voltage/temperature converter allows any multimeter to read temperatures (-32.4° to 1652° F) using a Type K thermocouple (purchased separately). Switches from °F to °C. **TC253A WAVETEK/METERMAN**

•**THERMOMETER, INFARED** — Non-contact for head to reach, sensitive, or moving target measurements. No probe required. Laser sighting. Up to 950° F (510° C). **373 TPI**

•**THERMOMETERS, NAIL-HEAD STYLE** — Digital tester, -40° to 300° F, auto shut-off, LCD display (**DP300 COOPER**). Analog tester, 0-220° F, stainless steel (**1236-32 COOPER**).

•**VOLTAGE TESTER, AC or DC, TWIN LEAD NEON** — Neon lamp glows to show live circuit (90-120v AC or DC). Has 5” test leads with probes, mounted on a handy pocket clip. **69136 KLEIN**



# TEST EQUIPMENT

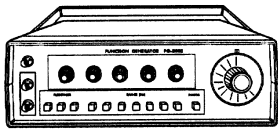


•**VOLTAGE TESTER, AC, “MINI VOLT TICK”** — Pocket size AC voltage indicator that ticks and lights up! Detects AC voltage without touching live circuits. Comes complete with battery. **1010 GREENLEE**

**Paladin Tools**

[www.triplett.com](http://www.triplett.com)

## FUNCTION GENERATORS



MODEL
OUTPUT
FREQUENCY

**FG2C WAVETEK**

Square, triangle, sine waves, TTL pulse

.2 Hz to 2 MHz

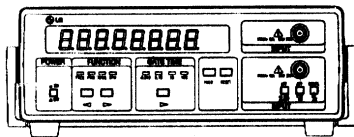
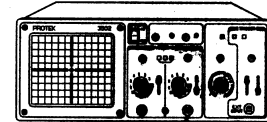
**B-801 PROTEK**

Sine, triangle, square, pluse, ramp or slewed sine wave.

.02 Hz to 2 MHz

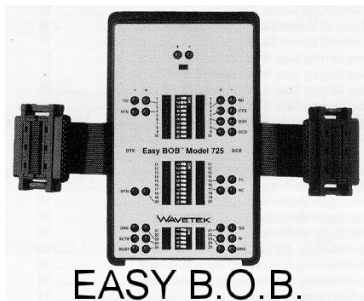
## OSCILLOSCOPES (dual trace)

MODEL	220 PROTEK computer based	123 FLUKE portable	P-3502 PROTEK	P-2640 PROTEK	OS-5100P GOLDSTAR
FREQUENCY	2 MHz pc based DSO	20 MHz storage + DMM	20 MHz	40 MHz	100 MHz



## FREQUENCY COUNTERS

MODEL	FC130A WAVETEK	B-1000 PROTEK
FREQ. RANGE	.01 Hz to 1.3 GHz	0.1 Hz to 1 GHz
SENSITIVITY	20mV @ 10kHz	25mV
DISPLAY	8 DIGITS	8 DIGITS



## BREAK OUT BOXES

- RS232C Interface Test
- LED Indictors
- Track Down System Interface Problems Fast

MODEL	BB-25 ELE	735 WAVETEK
POWERING	unpowered--takes power from signal lines	powered--9v batteries
FEATURES	Ideal when price is a factor	Can emulate signals by sending test voltages; signal trapping capability to detect pulses as shshort as 2 microseconds.
CARRYING CASE	-	VC700-1



# TEST EQUIPMENT



**RF DIRECTIONAL WATTMETER**—Measures RF power in 50 ohm coax and transmission lines, and accepts **plug in elements** in the range of 0.1 to 10000 watts full scale, and from 0.45 to 2300 MHz. Complete with a built-in line section. Simply connect the wattmeter between the power source and antenna or “dummy” load, plug in the appropriate measuring element and select forward or reflected direction. The RF power is visually identified directly on the **4-1/2" three scale display**.

Can be used with accessory cables up to 200' from the meter. Protected by a rugged, **virtually indestructible** shockproof housing. Two sockets for storage of additional elements are located on the back of the unit. Mirrored scale and superior **taut band** technology means reliable and accurate readings, plus integrity that satisfies the **US Navy** for bounce and vibration. **81000A CDI**

**RF PEAK READING WATTMETER**—Peak power measuring capability in the 2 to 2300 MHz frequency range and from 0.1 watt through 10 kw. Similar to the Model 81000A wattmeter, the **83000A** converts from average reading to peak reading, with the flip of a switch, by inserting a peak reading amplifier between the elements and the meter. Measures RF power in amplitude modulated systems such as television, telemetry, radar and peak envelope power (PEP) such as SSB and AM signals. The **plug-in elements** of the **83000A** are **interchangeable** with those of our model 81000A. Peak only (high power) elements are also available. To compliment each application and specific requirement, elements are selected separately. Special elements for higher power or extended frequency ranges are made by custom request. Two year limited warranty. Rugged **taut band** shock mounted has **mirrored scale** and is enclosed in a rugged housing.

Self-contained and requires no line power in either peak or average mode. Peak reading circuitry operates on one 9v “alkaline” battery (supplied). Normal, portable usage is possible for at least 90 days or the life of the battery. Comes with **female type “N” connectors**. Other quick-match connectors and additional options are also available. **83000A CDI**

## LOW POWER ELEMENTS

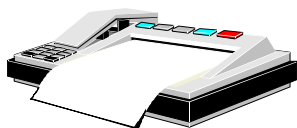
1W	70-120 MHz	<b>820D095 CDI</b>
1W	108-181 MHz	<b>820D145 CDI</b>
1W	425-850 MHz	<b>820D638 CDI</b>
2.5W	95-150 MHz	<b>820E123 CDI</b>
2.5W	150-250 MHz	<b>820E200 CDI</b>
2.5W	275-450 MHz	<b>820E363 CDI</b>

## WATTMETER CONNECTORS (units come with “N” female)

<b>N FEMALE</b>	<b>88000 CDI</b>
<b>N MALE</b>	<b>88001 CDI</b>
<b>UHF FEMALE</b>	<b>88004 CDI</b>

## ACCESSORIES

<b>WATTMETER CASE</b>	<b>88800 CDI</b>
<b>12 ELEMENT CASE</b>	<b>88802 CDI</b>
<b>METER &amp; ELEMENT CASE</b>	<b>88802 CDI</b>



## ACK'S FAX

Fax in your order & let Ack UPS it to you.

Ack **Atlanta's** fax is 404-351-1879.

Ack **Alabama's** fax is 205-322-0580

## STANDARD SLUGS FOR 81000A & 83000A

	2-30 MHz	25-60 MHz	50-125 MHz	100-250 MHz	200-500 MHz	400-1000 MHz	950-1300 MHz
5W	-	82012	82020*	82028	82036	82045	82068*
10W	-	82013	82021	82029	82037	82046	82069*
25W	-	82014	82022	82030	82038	82047	82070*
50W	82004	82015*	82023	82031	82039	82048	82071*
100W	82005	82016	82024	82032	82041	82049	82072*
250W	82006	82017*	82025*	82033	82042	82050	82073*
500W	82007	82018*	82026*	82034	82043*	82051	-
1000W	82008	82019*	82027*	82035	82044*	82052	-
2500W	82009	-	-	-	-	-	-
5000W	82010	-	-	-	-	-	-

\*non-stock, special order item.