

Digital Multimeters - continued

Digital Multimeter - continued

80 Series V - continued

Mfrs. List No.	Order Code	1+	+	+
83V	736-3486	Ⓢ	Ⓢ	Ⓢ
87V	736-3494	Ⓢ	Ⓢ	Ⓢ
87V/E Kit	736-3508	Ⓢ	Ⓢ	Ⓢ
H80M Holster	800-2223	Ⓢ	Ⓢ	Ⓢ
Retrofit Kit	491-7285	Ⓢ	Ⓢ	Ⓢ
C101 Carry Case	947-9783	Ⓢ	Ⓢ	Ⓢ
Standard Calibration Charge		S	Ⓢ	Ⓢ
UKAS Calibration Charge		N	Ⓢ	Ⓢ

True rms Analogue/Digital Multimeter

Fluke 187 & Fluke 189



The Fluke 187 and 189 DMMs deliver breakthrough performance with a wealth of new features, ranges and accuracy such as:

- 0.025% basic dc accuracy
- 50000 counts resolution
- 100 kHz ac bandwidth
- Internal memory for stand alone logging and storage of up to 1000 measurements (189 only)
- MIN MAX to record and time stamp values in elapsed time with reference to real time clock. Fast MIN MAX captures peaks to 250µS
- PC interface for closed calibration and data exchange with computer using optional FlukeView software



- Temperature readings in °C or °F using optional K-type thermocouple and 80AK thermocouple adapter
- Enhanced ranges, such as voltage measurements down to 1µV, capacitance up to 50000µF and resistance up to 500MΩ
- Multiple reading display with bargraph and two level backlight
- Optional toolpack accessory for hanging your meter and LockPak accessory for locking your meter
- All inputs are protected to EN61010-1 CAT 111/CAT IV 600V
- UL, CSA and TUV listed

Function	Measuring Ranges	Resolution	Accuracy
VDC	50mV, 500mV, 3000mV, 5V, 50V, 500V, 1000V	1µV	+/- (0.025% + 5)
VAC	50mV, 500mV, 3000mV, 5V, 50V, 500V, 1000V	1µV	+/- (0.4% + 40)
ADC	500µA, 5µA, 50mA, 400mA, 5A, 10A*	0.01µA	+/- (0.15% + 2)
AAC	500µA, 5000µA, 50mA, 400mA, 5A, 10A*	0.01µA	+/- (0.75% + 5)
Resistance	500Ω to 500MΩ	0.01Ω	+/- (0.05% + 2)
Conductance	500 ns	0.01nS	±(1% + 10)
Capacitance	1000nF to 50000µF	0.001nF	+/- (1.00% + 5)
Frequency	500Hz, 5kHz, 50kHz, 999.99kHz	0.01Hz	+/- (0.005% + 1)
Temperature	-200 to +1350°C	0.1°C	(1% + 1°C)
dBm and dBV	-52 to +60dB	0.01dB	±0.1dB

Accuracies are best accuracies for each function.
 *10A continuous, 20A for up to tot. 30 seconds and not specified.
 Every 187 and 189 comes packaged with TL71 silicone test leads, probe holder, two AC70A alligator clips, 4 x AA batteries (installed), manual and CD-ROM.

FlukeView Combo Kit: contains Fluke 189 and accessories as above plus; FlukeView forms software, USB cable adaptor, temperature thermocouple, battery pack, meter hanging kit and soft carry case.

Prices where indicated by a are subject to change. Please call your local sales office or visit www.farnellinone.com for the latest prices.

Description	Mfrs. List No.	Order Code	1+	+	+
Multimeter	FLUKE 187	351-1212	Ⓢ	Ⓢ	Ⓢ
Multimeter	FLUKE 189	351-1224	Ⓢ	Ⓢ	Ⓢ
FlukeView Combo Kit	189/FVF2	124-2940	Ⓢ	Ⓢ	Ⓢ
FlukeView Forms S/W	VVF-BASIC	947-9732	Ⓢ	Ⓢ	Ⓢ
FlukeView Forms 3.0 S/W	VVF-SC2.	359-6473	Ⓢ	Ⓢ	Ⓢ
USB Cable Adaptor	IR189USB	947-9740	Ⓢ	Ⓢ	Ⓢ
Battery Pack	BP189	947-9759	Ⓢ	Ⓢ	Ⓢ
Meter Locking Kit	LockPak	431-3872	Ⓢ	Ⓢ	Ⓢ
Meter Hanging Kit	ToolPak	431-3896	Ⓢ	Ⓢ	Ⓢ
Test leads set	TL76	442-1103	Ⓢ	Ⓢ	Ⓢ
Test leads set	TL82	947-9767	Ⓢ	Ⓢ	Ⓢ
Carry Case	C101	947-9783	Ⓢ	Ⓢ	Ⓢ
Standard Calibration Charge		S	Ⓢ	Ⓢ	Ⓢ
UKAS Calibration Charge		N	Ⓢ	Ⓢ	Ⓢ

Component Testers

LCR Component Tester



- Automatic component identification
- Automatic test frequency selection (DC, kHz, 15kHz, 200kHz)
- Delayed or instant analysis (for hands free operation)
- Auto power-off
- Non-volatile probe and test lead compensation
- Interchangeable probe sets
- Automatic ranging and scaling with REAL units display
- 1% basic accuracy

This is an advanced instrument that greatly simplifies the testing of passive components. The product does everything automatically, it tells you the component type in addition to the component value data. The analyser also automatically selects the best signal level and frequency for the particular component under test. Further component data is also displayed such as the DC resistance of an inductor.

A testers kit is also available which includes the LCR40 Component Tester, carry case and DCA55 semiconductor analyser.

Semiconductor Analyser DCA55

Automatically identifies transistors, Darlingtons, diode protected transistors, resistor shunted transistors, enhancement and depletion mode MOSFETs, JFETs, low power thyristors and triacs, diodes, diode networks, LEDs and bicolour LEDs.

		Min.	Typ.	Max.
Inductance	Range	1µH		10H
	Resolution	0.4µH	0.8µH	
	Accuracy		±1% ±0.8µH	
Capacitance	Range	0.4pF		10mF
	Resolution	0.1pF	0.3pF	
	Accuracy		±1% ±0.3pF	
Resistance	Range	1R		2MR
	Resolution	0.3R	0.6R	
	Accuracy		±1% ±0.6R	
Peak test voltage		-1.05V		+1.05V
Peak test current		-3.25mA		+3.25mA
Test Frequency accuracy	1kHz	-11%		+11%
	15kHz	-11%		+11%
	200kHz	-100ppm		+100ppm
Sine purity			-60dB 2 nd harmonic	
Peak test voltage		10°C		40°C
Battery operating voltage		8.5V		13V

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Description	Mfrs. List No.	Order Code	1+	+	+
LCR Tester	LCR-40	470-5233	6,833.00	--	--
Carry Case	ATC55	521-5511	1,225.00	--	--
Surface Mount	SMD03				
Tweezers		521-5481	1,647.00	--	--
Crocodile Clips	CRC01	521-5493	783.00	--	--
Long Grabber	XKM04				
Probes		521-5500	524.00	--	--
Probes Kit (includes SMD03, CRC01, XKM04)	PTP03	783-0262	3,111.00	--	--
Testers Kit	LCR40+DCA55+ATC55	783-0270	12,202.00	--	--

Component Analyser

Atlas DCA55



A testers kit is also available which includes the LCR40 Passive Component Tester, carry case and DCA55 semiconductor analyser.

Passive component Analyser LCR40

An advanced instrument that greatly simplifies the testing of passive components, it will identify the type of component (Inductor, Capacitor or Resistor) together with the components main value. Additionally, further component data is also displayed such as the DC resistance of an inductor.

- Automatically identifies transistors, Darlingtons, diode protected transistors, resistor shunted transistors, enhancement and depletion mode MOSFETs, JFETs, low power thyristors and triacs, diodes, diode networks, LEDs and bicolour LEDs.
- Automatic pin-out identification for all the above components
- Measures transistor gain, MOSFET gate threshold voltage, and forward voltage drop of diodes, LEDs and transistor base-emitter junctions
- 2 line scrollable LCD
- Simple two button control
- Gold plated universal probes
- Battery supplied
- Colour coded, universal clips
- Auto/manual power off
- Choice of 5 colours

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