

Fluke 787 ProcessMeter
Current, Source and Simulate



H = 187 (*201), W = 87 (*98),
D = 32 (*52) *incl. holster

- DMM and Loop calibrator in one tool
- Precision 1000V, 440mA digital multi-meter
- Measure both ac/dc volts, ac/dc current, resistance, continuity and frequency
- Min./Max./Average/Hold/Relative modes
- dc 20mA current source/loop calibrator/
- Manual step, auto step, auto ramp
- Clear LCD with backlight, 4,000 count, 30,000 count for dc current

FLUKE

CALIBRATION SERVICES

3 WARRANTY YEARS

The Fluke 787 ProcessMeter combines a DMM and loop calibrator in one. It has the ability to source, simulate and measure dc current with 1µA resolution.

The ProcessMeter has been designed for troubleshooting and calibrating current loop applications. It is EMI shielded, dust and splash resistant and has a removable battery door making it easy to change the battery without opening the meter.

Supplied complete with protective yellow holster, TL75 test leads, AC70A alligator clips, 9V battery and user manual and quick reference guide.

dc/ac voltage	400mV, 4V, 40V, 400V, 1000V
dc/ac current	1A (0.44A continuous)
dc mA	30mA
Resistance	400Ω, 4KΩ, 40KΩ, 4MΩ, 40MΩ
Frequency	199.99Hz, 1999.9Hz, 19.999KHz
Continuity	<100Ω
dc current O/P	0-20mA or 4-20mA
dc current simulate	0-20mA or 4-20mA
Ext. 24V loop supply	overranging to 24mA
Current adjustment modes	Manual: course, fine, 25% step Automatic: slow ramp, fast ramp, 25% step

T397

Order Code	Price Each			
	1+	2+	5+	10+
C 8 892-968				
Each				
Standard Calibration Charge	S C 8			

Autorange Analogue/Digital – 70 series III



H = 36, W = 89 max.,
L = 190, Weight 365g

The industry standard Fluke 70 series II has been upgraded and replaced with the 70 series III offering 3 models a new ergonomic styled case and a further 2 models in the 'classic' traditional style case, all with higher specification. All meters in the series have the following key benefits.

FLUKE

CALIBRATION SERVICES

LIMITED WARRANTY LIFETIME

- Lifetime warranty
- All inputs, ranges and functions protected against overvoltage transients
- Digital display with analogue bargraph
- Autoranging and manual range selection
- Touch hold
- Auto power off
- Continuity and diode test
- Protective holster, integrated on 75-III, 77-III, 79-III
- Supplied with test leads, manual and battery
- **IEC 1010-1, UL, CSA and TUV safety approvals**
- **70 and 73 series III classic shape**
- 0.3% basic accuracy (V dc)
- 3200 count display, 31 segment bargraph
- Measures ac/dc volts to 600V, resistance to 32MΩ
- Measures both ac/dc current with a 0.01mA max resolution (not 70-III)
- Supplied with separate holster
- **75 series III** new shape with large clear display and overmoulded holster
- Specification as 73-III but with improved basic accuracy
- **77 series III** has all the features of the 75 III plus
- Measures ac/dc voltage to 1000V
- Dual rated **IEC 1010 Cat 3** (600V) and **IEC 1010 Cat 2** (1000V)
- **79 series III** has all the features of the 77 III plus
- True RMS ac measurement
- Large 40,000 count display, 63 segment bar graph
- Capacitance and frequency measurement

Ranges	70, 73, 75, 77-III	79-III
Display count	3200	4000
dc volts (5 ranges)	320mV–600V(1000V-77-III)	(6 ranges) 40mV–1000V
ac volts (4 ranges)	3.2V–600V	(5 ranges) 400mV–1000V
dc current (3 ranges)	32mA–10A (not 70-III)	(4 ranges) 4mA–10A
ac current (3 ranges)	32mA–10A (not 70-III)	(4 ranges) 4mA–10A
Resistance (6 ranges)	320Ω–32MΩ	(7 ranges) 40Ω–40MΩ
Capacitance		(6 ranges) 99.9nF–9999µF
Frequency		20kHz
Battery life (all models)	2000hrs	

T402

Mfrs. List No.	Order Code	Price Each			
		1+	2+	5+	10+
Type 70 series 3	C 3 100-092				
Type 73 series 3	C 3 100-109				
Type 75 series 3	C 3 100-110				
Type 77 series 3	C 3 100-122				
Type 79 series 3	C 3 100-134				
Each					
Standard Calibration Charge	S C 3				

Digital Multimeters
170 Series



H = 183, W = 90, D = 43

The three models of the new 170 Series are the new benchmarks for general-purpose multi-meters. The three models the 175, 177, and 179 set the standard with a combination of precision, features, ease-of-use, safety and reliability.



All models offer true RMS AC voltage and current readings, 6000-count resolution, min-max-average recording, as well as frequency and capacitance ranges. Despite all

these and many other useful features, the 170 Series remains easy to use. The ergonomic case with integrated holster protects the units in rough and tough environments. To change the batteries, the case does not have to be opened as access to the batteries is through an easy-to-open battery door. All inputs are protected to **EN61010-1 CAT IV 600V/CAT III 1000V**. The Fluke 170 Series is supplied with TL75 test leads, installed 9V battery and user manual and comes with Fluke's unique lifetime warranty.

Features	175	177	179
True-rms measurements	AC	AC	AC
Digital display counts, updates 4 times per second	6000	6000	6000
Display backlight			
Analog bargraph/segments, updates 40 times per second	33-segments	33-segments	33-segments
Auto and manual ranging	•	•	•
Display hold and auto hold	•	•	•
Min-max-average recording mode with min/max alert	•	•	•
Temperature readings (bead thermocouple probe included)	•	•	•
Smoothing mode allows filtering of rapidly changing inputs	•	•	•
Audible continuity and diode test	•	•	•
Test lead alert warns for improper connection of test leads	•	•	•
Unsafe voltage alert warns for voltages above 30V	•	•	•
Low battery indication	•	•	•
Ergonomic case with integrated holster	•	•	•
Easy battery exchange without opening the complete case	•	•	•
Selectable sleep mode preserves battery life	•	•	•
Warranty	Lifetime	Lifetime	Lifetime
EN 61010-1 safety rating on all inputs	CAT III 1000V CAT IV 600V	CAT III 1000V CAT IV 600V	CAT III 1000V CAT IV 600V

Functions	Maximum	Max. resolution	175	177	179
Voltage DC	1000 V	0.1 mV	±(0.15%+2)	±(0.09%+2)	±(0.09%+2)
Voltage AC	1000 V	0.1 mV	±(1.0%+3)	±(1.0%+3)	±(1.0%+3)
Current DC	10 A	0.01 mA	±(1.0%+3)	±(1.0%+3)	±(1.0%+3)
Current AC	10 A	0.01 mA	±(1.5%+3)	±(1.5%+3)	±(1.5%+3)
Resistance	50 MΩ	0.1 Ω	±(0.9%+1)	±(0.9%+1)	±(0.9%+1)
Capacitance	10000 µF	1 nF	±(1.2%+2)	±(1.2%+2)	±(1.2%+2)
Frequency	100 kHz	0.01 Hz	±(0.1%+1)	±(0.1%+1)	±(0.1%+1)
Temperature	-40°C/+400°C	0.1°C			

Accuracies are best accuracies for each function

Battery life Alkaline, 200 hrs typical

Weight 420g

Warranty Lifetime

T547A

Mfrs. List No	Order Code	Price Each			
		1+	2+	5+	10+
FLUKE 175	C 3 355-8678				
FLUKE 177	C 3 355-8680				
FLUKE 179	C 3 355-8691				
PRICE UPON REQUEST					
Each					
Standard Calibration Charge	S C 3				

continued