

COMPACT METERS

SPECIALTY METERS



	117/115	116	114/113	279 FC	1587 FC	28 II / 28 II Ex	27 II
Basic features							
Counts	6000	6000	6000	6000	6000	20000	6000
True-rms readings	ac	ac	ac	ac	ac	ac	
Basic dc accuracy	0.5 %	0.5 %	0.5 %	0.09 %	0.09 %	0.05 %	0.1 %
Wide bandwidth					5 kHz	20 kHz	30 kHz
Auto / manual ranging	• / •	• / •	• / •	• / •	• / •	• / •	• / •
Digits	3-1/2	3-1/2	3-1/2	3-1/2	4-1/2	3-1/2 / 4-1/2	3-1/2
ATEX II 2G Eex ia IICT4 safety rating Zone 1 and Zone 2						28 II Ex	
Measurements							
Voltage ac/dc	600 V	600 V	600 V	1000 V	1000V	1000 V	1000 V
Current ac/dc	10 A	600 µA		2500 A ac (with iFlex)	400 mA	10 A	10 A
Resistance	40 MΩ	40 MΩ	40 MΩ	50 MΩ	50 MΩ	50 MΩ	50 MΩ
Frequency	100 kHz	100 kHz		100 kHz	100 kHz	200 kHz	200 kHz
Capacitance	10,000 µF	10,000 µF		10,000 µF	10,000 µF	10,000 µF	10,000 µF
Temperature		(+) 400 °C		Infrared Camera -10 °C to 200 °C	(+) 537 °C	(+) 1090 °C	
Conductance / dB						60 nS / -	60 nS / -
Duty cycle / pulse width						• / -	• / -
Continuity / diode test	•	•	•	•	•	•	•
Motor Drive (ASD) Measurements				•	•	•	•
VoltAlert™, Non-contact voltage detection	• (117)						
VCHEK™			• (113)				
LoZ: low input impedance	• (117)	•	•				
Lo ohms							
Microamps		•			•	•	•
Display							
Fluke Connect®-enabled				•			
Dot matrix display				•			
Dual display				•			
Analog bargraph	•	•	•			•	•
Backlight	•	•	•	•	•	Two level	Two level
Graphical trend display							
Diagnostics and data							
Min/Max recording / with time stamp	• / -	• / -	• / -	• / -	• / -	• / -	• / -
Fast min/max						250 µs	
Display Hold/Auto (Touch) Hold	• / -	• / -	• / -	• / •	• / •	• / •	• / •
Relative reference						•	•
Stand alone logging							
Trend capture							
Readings memories				(With FC app)	(With FC app)		
USB interface				•			
Other features							
Automatic selection, ac/dc volts	• (117)	•	•				
Overmolded case, integrated holster							
Removable holster	•	•	•	•	•	•	•
Infrared camera resolution				80 x 60			
Infrared camera Range				-10 °C, +200 °C			
iFlex compatibility				•			
Insulation test voltages					50 V, 100 V, 250 V, 500 V, 1000 V		
Pi/DAR timed ratio test					•		
Completely sealed and watertight						•	•
Operating temperature range	-10 °C, +50 °C	-10 °C, +50 °C	-10 °C, +50 °C	-10 °C, +50 °C	-20 °C, +55 °C	-40 °C, +55 °C / -15 °C, +50 °C	-40 °C, +55 °C
Warranty and electrical safety							
Warranty (years)	3	3	3	3	3	Lifetime / 3	Lifetime
Input alert				•	•	•	•
Dangerous voltage indication				•	•	•	•
IP rating	IP 42	IP 42	IP 42	IP 40	IP 40	IP 67	IP 67
EN61010-1 CAT III	600 V	600 V	600 V	1000 V	1000 V	1000 V	1000 V
EN61010-1 CAT IV			600 V (113)	600 V	600 V	600 V	600 V

Digital Multimeter selection chart



Fluke 117



Fluke 116



Fluke 115



Fluke 113

Compact meters

Best for
Wide variety of electrical work.

Electrical maintenance troubleshooting

When you need to eliminate false or “ghost” voltages or perform continuity, connection or basic wiring checks.

Non-contact voltage detection

Integrated non-contact voltage detection simplifies many tasks.

Best for
HVAC troubleshooting.

Residential HVAC maintenance

Lower voltage HVAC residential maintenance, installation and troubleshooting.

Temperature and microamp measurements

Troubleshooting problems with HVAC equipment and flame sensors.

Best for
Electronic and field service applications.

Electronic troubleshooting

Troubleshoot a wide variety of measurement parameters, including frequency and capacitance.

Best for
Utility applications involving basic electrical tests.

Revenue meter tests:

Involving meter sets and reconnects, capacitor checks, detection of absence or presence of voltage, and for continuity, connections or basic wiring checks.

Simultaneous voltage and continuity checks

Check LoZ low impedance function allows users to check voltage and continuity simultaneously.