Meters designed for the way you work

FLUKE®

Models	Advanced meters			Wireless meters		General purpose	
	87 V	289	287	233	3000 FC	179	77 IV
Basic features							
Counts	20000	50000	50000	6000	6000	6000	6000
True-rms readings	ac	ac+dc	ac+dc	ac	ac	ac	
Basic dc accuracy	0.05 %	0.025 %	0.025 %	0.25 %	0.09 %	0.09 %	0.3 %
Wide bandwidth	20 kHz	100 kHz	100 kHz				
Auto/manual ranging	•/•	•/•	•/•	•/•	•/•	•/•	•/•
Digits	4-1/2	4-1/2	4-1/2	3-1/2	3-1/2	3-1/2	3-1/2
ATEX II 2G Eex ia IICT4 safety rating Zone 1 and Zone 2							
Measurements							
Voltage ac/dc	1000V	1000V	1000V	1000 V	1000 V	1000 V	1000 V
Current ac/dc	10 A	10 A	10 A	10 A	400 mA	10 A	10 A
Resistance	50 MΩ	500 MΩ	500 MΩ	40 MΩ	50 MΩ	50 MΩ	50 MΩ
Frequency	200 kHz	1 MHz	1 MHz	50 kHz	100 kHz	100 kHz	100 kHz
Capacitance	10,000 µF	50,000 µF	50,000 µF	10,000 µF	10,000 µF	10,000 µF	10,000 µF
Temperature	(+) 1090 °C	(+) 1350 °C	(+) 1350 °C	(+) 400 °C		(+) 400 °C	
dB		60 dB	60 dB				
Conductance	50 nS	50 nS	50 nS				
Duty cycle/pulse width	•/–	•/•	•/•				
Continuity/diode test	•	•	•	•	•	•	•
Motor Drive (ASD) Measurements	•	•					
VoltAlert™, non-contact voltage detection							
VCHEK™							
LoZ: low input impedance		•					
Lo Ohms		•					
Microamps	•	•	•				
Display							
Wireless capabilities				Removable Wireless Display	Remote wireless readings. Connect to smart phone.		
Dot matrix display		•	•		•		
Dual display		•	•		•		
Analog bargraph	•	•	•			•	•
Backlight	Two level	Two level	Two level	•	•	•	•
Graphical trend display		•	•				
Diagnostics and data							
Min Max recording/with time stamp	•/–	•/•	•/•	•/–	•/–	•/–	•/–
Fast Min Max	250 µs	250 µs	250 µs				
Display Hold/Auto (Touch) Hold	•/•	•/•	•/•	•/•	•/•	•/•	•/•
Relative reference	•	•	•				
Stand alone logging		•	•				
Trend Capture		•	•				
Readings memories		10,000	10,000				
USB interface		•	•				
Other features							
Automatic selection, ac/dcvolts							
Real time clock		•	•				
Overmolded case, integrated holster		•	•	•	•	•	•
Removable holster	•						
Closed case calibration	•	•	•	•	•	•	•
Separate battery/fuse access	•/–	•/•	•/•	•	•	•	•
Completely sealed/ watertight							
Automatic power off	•	•	•	•	•	•	•
Low battery indication	•	•	•	•	•	•	•
Operating temperature range	-20 °C, +55 °C	-20 °C, +55 °C	-20 °C, +55 °C	-10 °C, +50 °C	-10 °C, +50 °C	-10 °C, +50 °C	-10 °C, +50 °C
Warranty and electrical safety							
Warranty (years)	Lifetime	Lifetime	Lifetime	3	3	Lifetime	Lifetime
Input alert	•	•	•				
Dangerous voltage indication	•	•	•	•	•	•	•
IP Rating	IP30	IP42	IP42		IP54		
EN61010-1 CAT III	1000 V	1000 V	1000 V	1000 V	1000 V	1000 V	1000 V
EN61010-1 CAT IV	600 V	600 V	600 V	600 V	600 V	600 V	600 V