










Pick the right digital multimeter for you

									
Models	Highest accuracy with data logging 189	Industrial troubleshooting 87V	4-20 mA loop diagnostics 789	Water and chemical resistant 27	True-rms and built-in thermometer 179	Classic auto ranging meter 73	Compact design 112	HVAC and electrical tester 16	Automotive troubleshooting 88
Basic features									
True-rms readings	AC+DC	AC	AC		AC		AC		
Basic dc accuracy	0.025 %	0.05 %	0.1 %	0.1 %	0.09 %	0.3 %	0.7 %	0.9 %	0.15 %
Wide bandwidth	100 kHz	20 kHz	20 kHz	30 kHz					
Auto/manual ranging	●	●	●	●	●	●	●	●	●
Digits	4-1/2	4-1/2	3-1/2	3-1/2	3-1/2	3-1/2	3-1/2	3-1/2	4-1/2
Counts	50000	20000	4000	3200	6000	3200	6000	4000	4000
Motor drive measurement		●							
Measurements									
Voltage ac/dc	1000 V	1000 V	1000 V	1000 V	1000 V	600 V	600 V	600 V	300 V
Current ac/dc	10 A	10 A	1 A	10 A	10 A	10 A	10 A	200 μA	10 A
Resistance	500 MΩ	50 MΩ	40 MΩ	32 MΩ	50 MΩ	32 MΩ	40 MΩ	40 MΩ	40 MΩ
Frequency	1 MHz	200 kHz	20 kHz		100 kHz		50 kHz		200 kHz
Capacitance	50,000 μF	9,999 μF			10,000 μF		10,000 μF	10,000 μF	
Temperature	+1350 °C	+1090 °C			+400 °C			+400 °C	
dB	60 dB								
Conductance	50 nS	50 nS		32 nS					
Duty cycle/pulse width	●	●							●
Continuity with beeper	●	●	●	●	●	●	●	●	●
Diode test	●	●	●	●	●	●	●	●	●
Display									
Dual display	●		●						
Analog bargraph	●	●	●	●	●	●	●	●	●
Backlight	●	●	●		●		●		●
Diagnostics and data									
Min/Max recording	●	●	●	●	●	●	●		●
Min/Max recording/with time stamp	●							●	
Fast Min/Max	250 μs	250 μs							
Display Hold/Auto (Touch) Hold	●	●		●	●	●	●		●
Relative reference	●	●	●	●					●
RS-232 interface	●		●						
Data logging			with PC						
Logged readings	995								
Other features									
Automatic selection, V-Check								●	
Real time clock	●								
Overmolded case, integrated holster	●		●		●				
Removable holster		●				●	●	●	●
Closed case calibration	●	●	●		●		●		
Battery door	●	●	●	●	●		●		
Completely sealed/watertight				●					
Automatic power off	●	●			●	●	●	●	●
Low battery indication	●	●	●	●	●	●	●	●	●
Operating temperature range	-20 °C, +55 °C	-20 °C, +55 °C	-20 °C, +55 °C	-40 °C, +55 °C	-10 °C, +50 °C	0 °C, +50 °C	-10 °C, +50 °C	-10 °C, +50 °C	-20 °C, +55 °C
4-20 mA			●						
24 V loop supply			●						
RPM									●
Warranty and electrical safety									
Limited lifetime warranty	●	●		●	●	●			●
Warranty (years)			3				3	2	
Input alert	●	●							●
Dangerous voltage indication	●	●		●	●		●		
CAT III measurements	1000 V	1000 V	1000 V	1000 V	1000 V		600 V	600 V	300 V
CAT IV measurements	600 V	600 V	600 V		600 V				