

# DMM Selection guide

	Highest accuracy		High-end Industrial		Industrial maintenance and field service			Electrical	HVAC/R	Field Service	Basic Electrical		General Purpose	Heavy duty	Auto-motive	Loop calibration		Insulation test	
	289	287	87V	83V	179	177	175	117	116	115	114	113	77IV	27	88V	789	787	1587	1577
<b>Basic features</b>																			
Counts	50000	50000	20000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	3200	20000	4000	4000	6000	6000
True RMS readings	AC+DC	AC+DC	AC		AC	AC	AC	AC	AC	AC	AC	AC				AC	AC	AC	AC
Basic DC accuracy	0.025%	0.025%	0.05%	0.1%	0.09%	0.09%	0.15%	0.5%	0.5%	0.5%	0.5%	2.0%	0.3%	0.1%	0.1%	0.1%	0.1%	0.09%	0.2%
Wide bandwidth	100 kHz	100 kHz	20 kHz	5 kHz										30 kHz					
Auto/manual ranging	●/●	●/●	●/●	●/●	●/●	●/●	●/●	●/●	●/●	●/●	●/●	●/●	●/●	●/●	●/●	●/●	●/●	●/●	●/●
<b>Measurements</b>																			
Voltage AC/DC	1000 V	1000 V	1000 V	1000 V	1000 V	1000 V	1000 V	600 V	600 V	600 V	600 V	600 V	1000 V	1000 V	1000 V	1000 V	1000 V	1000 V	1000 V
Current AC/DC	10 A	10 A	10 A	10 A	10 A	10 A	10 A	10 A	10 A	10 A	10 A	10 A	10 A	10 A	10 A	1 A	1 A	400 mA	400 mA
Resistance	500 MΩ	500 MΩ	50 MΩ	50 MΩ	50 MΩ	50 MΩ	50 MΩ	40 MΩ	40 MΩ	40 MΩ	40 MΩ	60 kΩ	50 MΩ	32 MΩ	50 MΩ	40 MΩ	40 MΩ	50 MΩ	50 MΩ
Frequency	1 MHz	1 MHz	200 kHz	200 kHz	100 kHz	100 kHz	100 kHz	50 kHz	50 kHz	50 kHz			100 kHz		200 kHz	20 kHz	20 kHz	100 kHz	
Capacitance	100 mF	100 mF	10 mF	10 mF	10 mF	10 mF	10 mF	10 mF	10 mF	10 mF		10 mF	10 mF		10 mF			10 mF	
Temperature	+1350°C	+1350°C	+1090°C												+1090°C				+500°C
dB	60 dB	60 dB																	
Conductance	50 nS	50 nS	60 nS	60 nS										32 nS	60 nS				
Duty cycle/pulse width	●/●	●/●	●/-	●/-											●/●				
Continuity with beeper	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Diode test	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
4-20mA loop current as % readout																			
Motor drive measurement	●		●																●
RPM/Dwell															●/-				
VoltAlert™, Non-contact voltage detection								●											
LoZ: low input impedance	●							●	●			●							
VCHEK™ LoZ												●							
Microamps	●	●	●	●					●					●					
Insulation test																		●	●
Number of insulation test ranges																		5	2
<b>Display</b>																			
Dual display	●	●														●	●		
Analog bargraph	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Backlight	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
<b>Data storage and exchange</b>																			
Min-Max recording/with time stamp	●/●	●/●	●/-	●/-	●/-	●/-	●/-	●/-	●/-	●/-	●/-	●/-	●/-	●/-	●/-	●/-	●/-	●/-	●/-
Fast Min-Max	250 μs	250 μs	250 μs												250 μs				
Display Hold/Auto (Touch) Hold	●/●	●/●	●/●	●/●	●/●	●/●	●/●	●/-	●/-	●/-	●/-	●/-	-/●	-/●	●/●	-/●	-/●	●/●	
Relative	●	●	●	●									●	●	●	●	●		
Stand alone logging/TrendCapture	●/●	●/●																	
USB interface/RS232 interface	●/●	●/●														●/●	●/●		
Readings memories	10000	10000																	
<b>Other features</b>																			
Source 4-20mA loop current/24V loop supply																●/●	●/-		
Automatic selection, AC/DC volts								●	●		●	●							
Real time clock	●	●																	
Smoothing			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Integrated holster	●	●			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Removable holster			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Closed case calibration	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Seperate battry/fuse access	●/●	●/●	●/-	●/-	●/●	●/●	●/●	●/-	●/-	●/-	●/-	●/-	●/●	●/●	●/-	●/●	●/-	●/●	●/●
Automatic power off	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Low battery indication	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
<b>Warranty and safety</b>																			
Lifetime warranty/warranty (years)	●	●	●	●	●	●	●	3	3	3	3	3	●	●	●	3	3	3	3
Input alert	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Dangerous voltage indication	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
EN61010-1 CAT II																			
EN61010-1 CAT III	1000 V	1000 V	1000 V	1000 V	1000 V	1000 V	1000 V	600 V	600 V	600 V	600 V	600 V	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						600 V	600 V	600 V			600 V	600 V
See catalog page	12	12	13	13	14	14	14	15	15	15	15	15	16	16	17	93	93	33	33



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