

	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	
Basic features	189	187	87V	83V	179	177	175	117	116	115	114	77IV	27	88V	789	787	1587/1587T	1577
Counts	50000	50000	20000	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
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%	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	●/●	●/●	●/●	●/●	●/●	●/●	●/●	●/●	●/●	●/●	●/●	●/●	●/●	●/●	●/●	●/●	●/●	●/●
Measurements																		
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	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	200 μA	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	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	50 mF	50 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		+400 °C				+400 °C					+1090 °C			+500 °C	
dB	60 dB	60 dB																
Conductance	500 nS	500 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								●	●		●							
Microamps									●									
Insulation test																	●	●
Number of voltage test ranges																	5	2
Display																		
Dual display	●	●													●	●		
Analog bargraph	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
Backlight	●	●	●	●	●	●		●	●	●	●	●		●	●	●	●	●
Data storage and exchange																		
Min-Max recording/with time stamp	●/●	●/●	●/-	●/-	●/-	●/-	●/-	●/-	●/-	●/-	●/-	●/-	●/-	●/-	●/-	●/-	●/-	
Fast Min-Max	250 μs	250 μs	250 μs											250 μs				
Display Hold/Auto (Touch) Hold	●/●	●/●	●/●	●/●	●/●	●/●	●/●	●/-	●/-	●/-	●/-	-/●	-/●	●/●	-/●	-/●	●/●	
Relative	●	●	●	●									●	●	●	●		
RS-232 interface/stand-alone logging	●/●	●/-													●/-			
Readings memories	100																	
Other features																		
Source 4-20mA loop current/24V loop supply															●/●	●/-		
Automatic selection, AC/DC Volts								●	●		●							
Real time clock	●	●																
Smoothing					●	●	●										●	
Integrated holster	●	●			●	●	●					●			●			
Removable holster			●	●				●	●	●	●			●		●	●	●
Closed case calibration	●	●	●	●	●	●	●	●	●	●	●	●		●	●	●	●	●
Separate battery/fuse access	●/●	●/●	●/-	●/-	●/-	●/-	●/-	●/-	●/-	●/-	●/-		●/●	●/-	●/●	●/-	●/●	●/●
Automatic power off	●	●	●	●	●	●	●	●	●	●	●	●		●	●	●	●	●
Low battery indication	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Warranty and safety																		
Lifetime warranty/warranty (years)	●	●	●	●	●	●	●	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	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
See catalog page	14	14	15	15	16	16	16	17	17	17	17	18	18	19	81	81	32	32