

	Advanced Meters				Wireless Meters		Industrial Maintenance and Field Service Meters				Compact Meter				Automotive Meters	Insulation Testers			Specialty Meters			
Models	87 V	87 V MAX	287	289	233	3000 FC	175	177	179	110	113	114	115	116 HVAC	117	88V	1577	1587 FC	27 II	28 II	28IIEX	279 FC
Basic features																						
Counts	20000	20000	50000	50000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	20000	6000	6000	6000	20000	20000	6000
True-RMS readings	AC	AC	AC+DC	AC+DC	AC	AC	AC	AC	AC	AC	AC	AC	AC	AC	AC	AC	AC	AC	AC	AC	AC	AC
Basic DC accuracy	0.05%	0.05%	0.025%	0.025%	0.25%	0.09%	0.15%	0.09%	0.09%	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%	0.1%	0.2%	0.09%	0.1%	0.05%	0.05%	0.09%
AC bandwidth	20 kHz	20 kHz	100 kHz	100 kHz															30 kHz	20 kHz	20kHz	
Auto/manual ranging	•/•	•/•	•/•	•/•	•/•	•/•	•/•	•/•	•/•	•/•	•/•	•/•	•/•	•/•	•/•	•/•			•/•	•/•	•/•	•/•
ATEX II 2G Ex ia IICT4 safety rating Z1/Z2																					.	
Measurements																						
Voltage AC/DC	1000 V	1000 V	1000 V	1000 V	1000 V	1000 V	1000 V	1000 V	1000 V	600 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	400 mA	10 A	10 A	10 A					10 A	600 μA	10 A	10 A	400mA	400mA	10 A	10 A	2500 A AC (w/ iFlex™)
Resistance	50 MΩ	50 MΩ	500 MΩ	500 MΩ	40 MΩ	50 MΩ	50 MΩ	50 MΩ	50 MΩ	40 MΩ	60 kΩ	40 MΩ	40 MΩ	40 MΩ	40 MΩ	50 MΩ	50 MΩ	50 MΩ	50 MΩ	50 MΩ	50 MΩ	50 MΩ
Frequency	200 kHz	200 kHz	1 MHz	1 MHz	50 kHz	100 kHz	100 kHz	100 kHz	100 kHz					100 kHz	100 kHz	100 kHz	200 kHz		100 kHz	200 kHz	200 kHz	100 kHz
Capacitance	9,999 μF	9,999 μF	1 pF to 100mF	1 pF to 100mF	9,999 μF	9,999 μF	9,999 μF	9,999 μF	9,999 μF		9,999 μF			9,999 μF	9,999 μF	9,999 μF		9,999 μF	9,999 μF	9,999 μF	9,999 μF	9,999 μF
Temperature	+1090°C	+1090°C	+1350°C	+1350°C	+400°C										+400°C					+1090°C	+1090°C	
dB			60 dB	60 dB																		
Conductance	50 nS	60 nS	50 nS	50 nS												60 nS			60 nS	60 nS	60 nS	
Duty cycle/pulse width	•/–	•/–	•/•	•/•												•/•			•/–	•/–	•/–	
Continuity/diode test	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Motor Drive (ASD) Measurements	•	•		•														•	•	•	•	•
VoltAlert™, non-contact voltage detection															•							
VCHEK™											•											
LoZ: low input impedance				•								•			•							
Microamps	•	•	•	•											•				•	•	•	
Insulation Test																	•					
Number of insulation test ranges																	2	5				
Display																						
Removable wireless display					•																	
Dot matrix display			•	•		•																
Dual display			•	•		•																
Analog bargraph	•	•	•	•			•	•	•	•	•	•	•	•	•	•			•	•	•	
Backlight	Two level	Two level	Two level	Two level	•	•		•	•	•	•	•	•	•	•	•	•	•	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	250 μs												250 μs				250 μs	250 μs	
Display Hold/Auto (Touch) Hold	•/•	•/•	•/•	•/•	•/•	•/•	•/•	•/•	•/•	•/–	•/–	•/–	•/–	•/–	•/–	•/•		•/•	•/•	•/•	•/•	•/•
Relative reference	•	•	•	•															•	•	•	
Stand alone logging			•	•		(with app)																(with app)
Trend Capture			•	•		(with app)																(with app)
Readings memories			10,000	10,000		(with app)																(with app)
USB interface			•	•																		
Other features																						
Real time clock			•	•							•	•		•	•							
Automatic selection, AC/DC volts																						
Closed case calibration	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Separate battery/fuse access	•/–	•/•	•/•	•/•	•	•	•/•	•/•	•	•	•	•	•	•	•	•	•/•	•/•	•	•/•	•/–	•
Operating temperature range	–20°C, +55°C	–40°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	–10°C, +50°C	–10°C, +50°C	–10°C, +50°C	–10°C, +50°C	–10°C, +50°C	–10°C, +50°C	–10°C, +50°C				–40°C, +55°C	–40°C, +55°C	–15°C, +50°C	–15°C, +50°C
Warranty and electrical safety																						
Input alert	•	•	•	•												•			•	•	•	
IP Rating	IP30	IP67				IP54				IP42	IP42	IP42	IP42	IP42	IP42				IP67	IP67	IP67	IP40
Safety rating (EN 61010) CAT III	1000 V	1000 V	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
Safety rating (EN 61010) 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	600 V	600 V	600 V

