

Technical Specifications

Specifications	UT281E+		UT281F	
	Range & Resolution	Accuracy	Range & Resolution	Accuracy
DC Voltage	6.000V; 0.001V	$\pm(0.8\%+2)$	6.000V; 0.001V	$\pm(0.8\%+2)$
	60.00V; 0.01V		60.00V; 0.01V	
	600.0V; 0.1V		600.0V; 0.1V	
	1000V; 1V		1000V; 1V	
AC Voltage	6.000V; 0.001V	$\pm(1.0\%+3)$	6.000V; 0.001V	$\pm(1.2\%+3)$
	60.00V; 0.01V		60.00V; 0.01V	
	600.0V; 0.1V		600.0V; 0.1V	
	1000V; 1V		1000V; 1V	
Freq. response	45Hz~500Hz		50Hz~500Hz	$\pm(1.2\%+3)$
ACV/DCV Auto identification			50Hz~500Hz	$\pm(2.0\%+5)$
AC Current (Frequency response: 45Hz~500Hz)	9.99A; 0.01A	$\pm(2.0\%+5)$	100mA; 1mA	$\pm(2.5\%+5)$
	99.9A; 0.1A		1000mA; 1mA	
	999A; 1A		10.00A; 0.01A	
	9.99kA; 0.01kA		100.0A; 0.1A	
Frequency (ACA)	10.0Hz~1000Hz; 0.1	$\pm(0.5\%+3)$	1.00kA; 0.01kA	$\pm(3.0\%+5)$
Frequency (ACV)	10.0Hz~30.0kHz; 0.1	$\pm(0.5\%+3)$	10.00kA; 0.01kA	$\pm(0.5\%+3)$
INRUSH Current	100.0A; 0.1A	$\pm 10.0\%$	45Hz~1000Hz; 0.1	$\pm(0.5\%+3)$
Resistance	6000A; 1A	$\pm 10.0\%$	10.0Hz~30.0kHz; 0.1	$\pm 10.0\%$
	600.0A; 0.1A		100.0A; 0.1A	
	600.0A; 0.1A		1000A; 1A	
	600.0A; 0.1A		1000A; 1A	
Active power	600.0A; 0.1A	$\pm(1.0\%+5)$	600.0A; 0.1A	$\pm(1.0\%+5)$
	600.0A; 0.1A		600.0A; 0.1A	
	600.0A; 0.1A		600.0A; 0.1A	
	600.0A; 0.1A		600.0A; 0.1A	
Apparent power	600.0A; 0.1A	$\pm(1.0\%+5)$	600.0A; 0.1A	$\pm(1.0\%+5)$
	600.0A; 0.1A		600.0A; 0.1A	
	600.0A; 0.1A		600.0A; 0.1A	
	600.0A; 0.1A		600.0A; 0.1A	
Reactive power	600.0A; 0.1A	$\pm(1.0\%+5)$	600.0A; 0.1A	$\pm(1.0\%+5)$
	600.0A; 0.1A		600.0A; 0.1A	
	600.0A; 0.1A		600.0A; 0.1A	
	600.0A; 0.1A		600.0A; 0.1A	
Electrical energy	600.0A; 0.1A	$\pm(2.0\%+5)$	600.0A; 0.1A	$\pm(2.5\%+5)$
Power factor	600.0A; 0.1A	$\pm(2.5\%+5)$	600.0A; 0.1A	$\pm(3\%+5)$
Phase angle	600.0A; 0.1A		600.0A; 0.1A	$\pm(3.5\%+5)$
Features	600.0A; 0.1A		600.0A; 0.1A	$\pm(3.5\%+5)$
	600.0A; 0.1A		600.0A; 0.1A	
	600.0A; 0.1A		600.0A; 0.1A	
	600.0A; 0.1A		600.0A; 0.1A	
True RMS	V		600.0A; 0.1A	$\pm(3.5\%+5)$
Display count	6000		600.0A; 0.1A	$\pm(3.5\%+5)$
Data storage	999 sets		600.0A; 0.1A	$\pm(3.5\%+5)$
Bluetooth app			600.0A; 0.1A	$\pm(3.5\%+5)$
Data	Data hold; Data review & Data delete.		600.0A; 0.1A	$\pm(3.5\%+5)$
Display	LCD with backlight		600.0A; 0.1A	$\pm(3.5\%+5)$
Coil length	1100mm		600.0A; 0.1A	$\pm(3.5\%+5)$
High voltage OL alarm	V (ACV/DCV)		600.0A; 0.1A	$\pm(3.5\%+5)$
Continuity test	V		600.0A; 0.1A	$\pm(3.5\%+5)$
Over range alarm	V		600.0A; 0.1A	$\pm(3.5\%+5)$
Low voltage indication	V		600.0A; 0.1A	$\pm(3.5\%+5)$
Auto power off	V		600.0A; 0.1A	$\pm(3.5\%+5)$
Operating environment	Operating Temperature: 0°C~40°C; Storage Temperature: -10°C~50°C; Humidity: less than 75%		600.0A; 0.1A	$\pm(3.5\%+5)$
Safety rating	CAT III 1000V/CAT IV 600V		600.0A; 0.1A	$\pm(3.5\%+5)$
Power supply	3 x 1.5V AAA		600.0A; 0.1A	$\pm(3.5\%+5)$

Product is preliminary and subject to change pending final release information.

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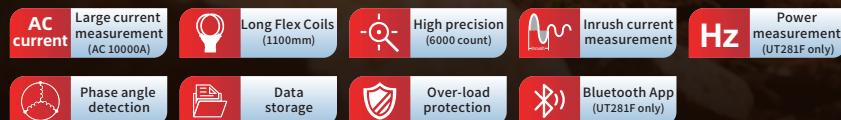
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FLEX CLAMP METERS

UT281 Series



UT281 Series True RMS Flexible Clamp Meters are high-precision, multi-functional electrical measuring instruments. They feature a 1.1m flexible coil and a maximum current measurement range of 10,000A. These meters are widely used in smelting, communications, manufacturing, petroleum, power, electrical engineering, and photovoltaic stations.



1100mm Flex Coil



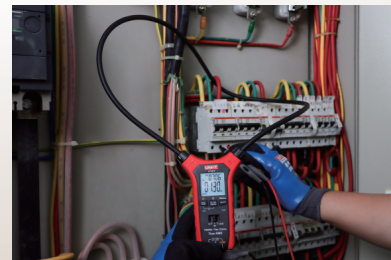
1100mm (around 43 inch) can measure up to 350mm diameter cable



Flexible coils make it easy to perform measurement activities in areas with dense wiring or where space is at a premium;

AC 10000A current measurement

Suitable for low-voltage high-current distribution cabinets, large power grids, railroads, scientific research and industrial and mining enterprises;



Power measurement

- 1, Range: 0~3600KW; Resolution: 0.01kW;
- 2, Fast measurement: Active power, Apparent power, Reactive power, Power factor.

Multi-functional all in one



Inrush current test

Resistance test

Continuity test

6000 count dual display



AC Voltage measurement



Dual display: V+Hz

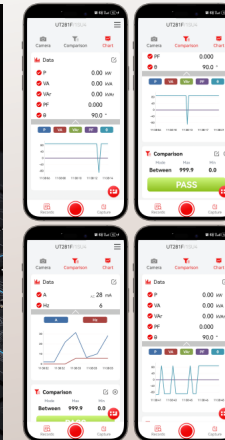


AC Current measurement



Dual display: A+Hz

Bluetooth App (UT281F only)



UNI-T Smart Measure

- Generating testing report;
- Generating real-time charts;
- Export multiple test data: PDF/XLS/JPEG/CSV;



UNIT Smart Measure (Google play)



UNI-T Smart Measure (iOS-app store)



Application scenarios



Bus bar current test

AC voltage test in the power distribution box

DC current test of Battery modules

Low voltage high current Test in power cabinet