

Technical Specifications

Specifications	UT281E+		UT281F	
	Range & Resolution	Accuracy	Range & Resolution	Accuracy
DC Voltage	6.000V; 0.001V	±(0.8%+2)	6.000V; 0.001V	±(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	±(1.0%+3)	6.000V; 0.001V	±(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	
ACV/DCV Auto identification			50Hz~500Hz	±(1.2%+3)
AC Current (Frequency response: 45Hz~500Hz)		±(2.0%+5)	100mA ; 1mA	±(2.0%+5)
			1000mA ; 1mA	
	9.99A; 0.01A		10.00A ; 0.01A	±(2.5%+5)
	99.9A; 0.1A		100.0A ; 0.1A	
	999A; 1A		1.00kA ; 0.01kA	±(3.0%+5)
	9.99kA; 0.01kA		10.00kA ; 0.01kA	
Frequency (ACA)	10.0Hz~1000Hz; 0.1	±(0.5%+3)	45Hz~1000Hz; 0.1	±(0.5%+3)
Frequency (ACV)	10.0Hz~30.0kHz; 0.1	±(0.5%+3)	10.0Hz~30.0kHz; 0.1	±(0.5%+3)
INRUSH Current	100.0A; 0.1A	±10.0%	100.0A; 0.1A	±10.0%
	6000A; 1A		1000A; 1A	
Resistance	600.0Ω; 0.1Ω	±(1.0%+5)	600.0Ω; 0.1Ω	±(1.0%+5)
	6.000kΩ; 0.001kΩ		6.000kΩ; 0.001kΩ	
	60.00kΩ; 0.01kΩ		60.00kΩ; 0.01kΩ	±(2.0%+5)
	600.0kΩ; 0.1kΩ		600.0kΩ; 0.1kΩ	
	6.000MΩ; 0.001MΩ		6.000MΩ; 0.001MΩ	±(2.5%+5)
	60.00MΩ; 0.01MΩ		60.00MΩ; 0.01MΩ	±(3%+5)
Active power			60.00kW; 0.01	±(3.5%+5)
			600.0kW; 0.1	±(3.5%+5)
			3600kW; 1	±(3.5%+5)
Apparent power			60.00kVA; 0.01	±(3.5%+5)
			600.0kVA; 0.1	±(3.5%+5)
			3600 kVA; 1	±(3.5%+5)
Reactive power			60.00kvar; 0.01	±(3.5%+5)
			600.0kvar; 0.1	±(3.5%+5)
			3600kvar; 1	±(3.5%+5)
Electrical energy			0.0Wh~3600kWh; 0.01	±(3.5%+5)
Power factor			-1~1; 0.001	50Hz/60Hz
Phase angle			-360°~360°; 0.1	50Hz/60Hz
Features				
True RMS	√			
Display count	6000			
Data storage	999 sets		1050 sets	
Bluetooth app			BT 5.0	
Data	Data hold; Data review & Data delete.			
Display	LCD with backlight			
Coil length	1100mm			
High voltage OL alarm	√ (ACV/DCV)			
Continuity test	√			
Over range alarm	√			
Low voltage indication	√			
Auto power off	√			
Operating environment	Operating Temperature: 0°C~40°C; Storage Temperature: -10°C~50°C; Humidity: less than 75%			
Safety rating	CAT III 1000V/CAT IV 600V			
Power supply	3 x 1.5V AAA			

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

UNI-TREND
TECHNOLOGY



meters.uni-trend.com

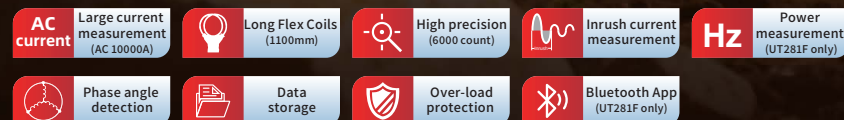


UNI-T

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.

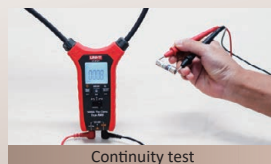
Multi-functional all in one



Inrush current test



Resistance test



Continuity test

6000 count dual display

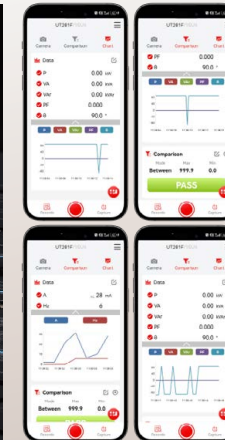


AC Voltage measurement



AC Current measurement

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