

Technical Specifications

Specifications	UT281D		UT281E+		UT281F	
	Range		Range		Range	
DC Voltage	6V; 0.001V		6V; 0.001V		6V; 0.001V	
	60V; 0.01V	±(0.8%+2)	60V; 0.01V	±(0.8%+2)	60V; 0.01V	±(0.8%+2)
	600V; 0.1V		600V; 0.1V		600V; 0.1V	
	1000V; 1V	±(1.0%+2)	1000V; 1V	±(1.0%+2)	1000V; 1V	±(1.0%+2)
AC Voltage	6V; 0.001V		6V; 0.001V		6V; 0.001V	
	60V; 0.01V	±(1.0%+3)	60V; 0.01V	±(1.0%+3)	60V; 0.01V	±(1.2%+3)
	600V; 0.1V		600V; 0.1V		600V; 0.1V	
	1000V; 1V	±(1.2%+3)	1000V; 1V	±(1.2%+3)	1000V; 1V	
Freq. response (ACV)	45Hz~500Hz		45Hz~500Hz		50Hz~500Hz	
ACV/DCV Auto identification	Manual		Manual		50Hz~500Hz (Auto & Full range)	±(1.2%+3)
AC Current (Frequency response: 45Hz~500Hz)					100mA; 1mA	±(2.0%+5)
					1000mA; 1mA	
			9.99A; 0.01A		10A; 0.01A	±(2.5%+5)
			99.9A; 0.1A	±(2.0%+5)	100A; 0.1A	
Frequency (ACA)	60A; 0.01A		999A; 1A	±(2.5%+5)	1kA; 0.01kA	±(3.0%+5)
	600A; 0.1A	±(2.0%+5)	9.99kA; 0.01kA	±(3.0%+5)	10kA; 0.01kA	
	6000A; 1A					
Frequency (ACV)	10Hz~1000Hz; 0.1	±(0.5%+3)	10Hz~1000Hz; 0.1	±(0.5%+3)	45Hz~1000Hz; 0.1	±(0.5%+3)
INRUSH Current	10Hz~30kHz; 0.1	±(0.5%+3)	10Hz~30kHz; 0.1	±(0.5%+3)	10Hz~30kHz; 0.1	±(0.5%+3)
Resistance	100A; 0.1A	±10.0%	100A; 0.1A	±10.0%	100A; 0.1A	±10.0%
	6000A; 1A		6000A; 1A		1000A; 1A	
	600Ω; 0.1Ω		600Ω; 0.1Ω		600Ω; 0.1Ω	±(1.0%+5)
	6kΩ; 0.001kΩ	±(1.0%+5)	6kΩ; 0.001kΩ	±(1.0%+5)	6kΩ; 0.001kΩ	
Active power	60kΩ; 0.01kΩ		60kΩ; 0.01kΩ		60kΩ; 0.01kΩ	±(2.0%+5)
	600kΩ; 0.1kΩ		600kΩ; 0.1kΩ		600kΩ; 0.1kΩ	
	6MΩ; 0.001MΩ	±(2.0%+5)	6MΩ; 0.001MΩ	±(2.0%+5)	6MΩ; 0.001MΩ	±(2.5%+5)
	60MΩ; 0.01MΩ	±(2.5%+5)	60MΩ; 0.01MΩ	±(2.5%+5)	60MΩ; 0.01MΩ	±(3%+5)
Apparent power					60kW; 0.01	±(3.5%+5)
					600kW; 0.1	±(3.5%+5)
					3600kW; 1	±(3.5%+5)
					60kVA; 0.01	±(3.5%+5)
Reactive power					600kVA; 0.1	±(3.5%+5)
					3600kVA; 1	±(3.5%+5)
					60kvar; 0.01	±(3.5%+5)
					600kvar; 0.1	±(3.5%+5)
Electrical energy					3600kvar; 1	±(3.5%+5)
Power factor					0.0Wh~3600kWh; 0.01	±(3.5%+5)
Phase angle					-1°~1; 0.001	50Hz/60Hz
-360°~360°; 0.1						
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	550mm		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.

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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.

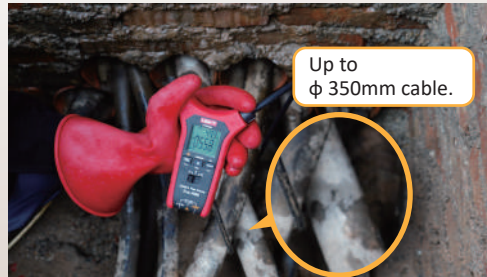
AC current	Large current measurement	Light	Long Flex Coils	High precision	Inrush current	Hz	Power measurement (UT281F only)
Phase angle detection (UT281F only)	Data storage	Over-load protection	Bluetooth App (UT281F only)				

Long Flexible Coil



UT281E+/UT281F: 1100mm

UT281D: 550mm



- 1, Up to 1100mm (around 43 inch) can measure up to 350mm diameter cable
- 2, Flexible coils make it easy to perform measurement activities in areas with dense wiring or where space is at a premium.

Large AC current measurement

- 1, Up to AC 10000A current measurement;
- 2, UT281D: AC 6000A; UT281E+/UT281F: AC 10000A
- 3, Suitable for low-voltage high-current distribution cabinets, large power grids, railroads, scientific research and industrial and mining enterprises;



Power measurement (UT281F)

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

Multi-functional all in one

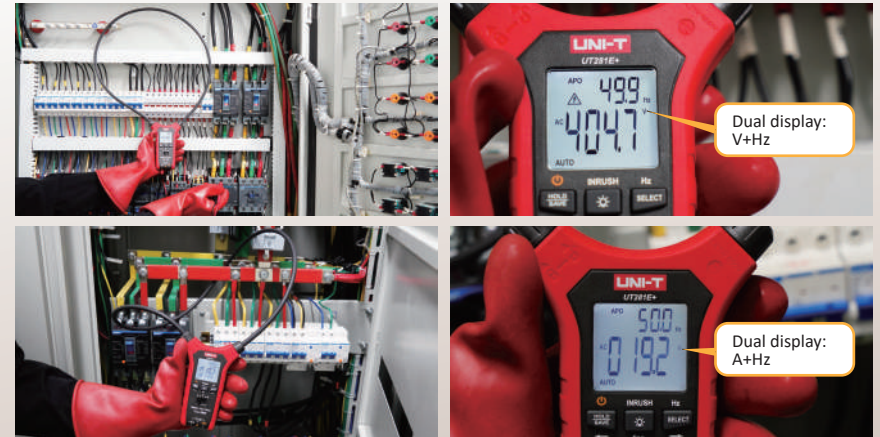


Inrush current test

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 voltage test of Battery modules

Low voltage high current test in power cabinet