

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	
AC Voltage	1000V; 1V	±(1.0%+2)	1000V; 1V	±(1.0%+2)	1000V; 1V	±(1.0%+2)
	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)	
AC Current (Frequency response: 45Hz~500Hz)					100mA; 1mA	
					1000mA; 1mA	
					10A; 0.01A	
	60A; 0.01A		9.99A; 0.01A	±(2.0%+5)	100A; 0.1A	±(2.5%+5)
	600A; 0.1A	±(2.0%+5)	999A; 1A	±(2.5%+5)	1kA; 0.01kA	
	6000A; 1A		9.99kA; 0.01kA	±(3.0%+5)	10kA; 0.01kA	±(3.0%+5)
Frequency (ACA)	10Hz~1000Hz; 0.1	±(0.5%+3)	10Hz~1000Hz; 0.1	±(0.5%+3)	45Hz~1000Hz; 0.1	±(0.5%+3)
Frequency (ACV)	10Hz~30kHz; 0.1	±(0.5%+3)	10Hz~30kHz; 0.1	±(0.5%+3)	10Hz~30kHz; 0.1	±(0.5%+3)
INRUSH Current	100A; 0.1A		100A; 0.1A		100A; 0.1A	
	6000A; 1A	±10.0%	6000A; 1A	±10.0%	1000A; 1A	±10.0%
Resistance	600Ω; 0.1Ω		600Ω; 0.1Ω		600Ω; 0.1Ω	±(1.0%+5)
	6kΩ; 0.001kΩ		6kΩ; 0.001kΩ		6kΩ; 0.001kΩ	
	60kΩ; 0.01kΩ	±(1.0%+5)	60kΩ; 0.01kΩ	±(1.0%+5)	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)
Active power					60kW; 0.01	
					600kW; 0.1	
					3600kW; 1	
Apparent power					60kVA; 0.01	
					600kVA; 0.1	
					3600kVA; 1	
Reactive power					60kvar; 0.01	
					600kvar; 0.1	
					3600kvar; 1	
Electrical energy					0.0Wh~3600kWh; 0.01	
Power factor					-1~1; 0.001	
Phase angle					-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.



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

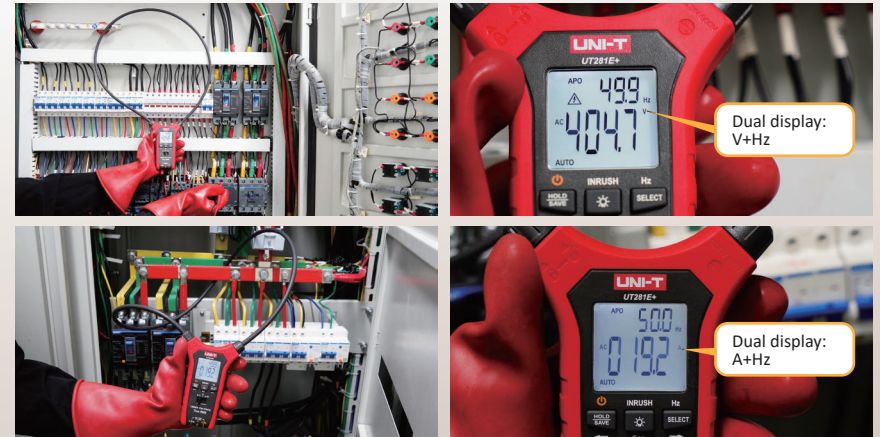


Inrush current test

Resistance test

Continuity test

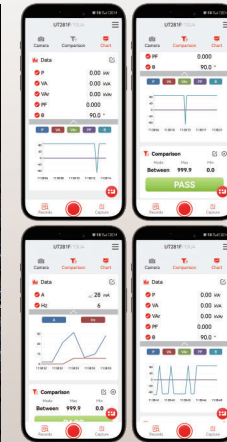
6000 count dual display



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