

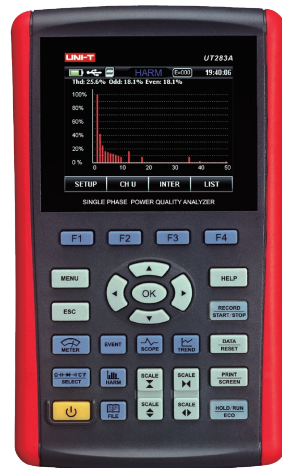
UT283A Single Phase Power Quality Analyzer

UT283A is a handheld multi-functional device designed to measure and analyze single-phase power systems. This portable S class device can measure amplitude, phase, harmonics, current, voltage, then record results in SD card for further analysis and export. This product is suitable for professionals working in electrical power, medical, transportation, telecommunication, and other industrial areas.

- Trend/event capture
- Harmonics/inrush current measurement
- File management through USB interface
- Flick measure (PST/PLT values)
- Multimeter functions
- Scope functions including waveform display
- THD (Total Harmonic Distortion) function
- Long-term monitoring
- True RMS
- Harmonic analysis: up to 51th
- Flick measure: 10 minutes, PST and PLT values
- Voltage ratio/current ratio
- Data logging: 8GB
- USB interface/backlight adjustment
- Input protection



● current clamp



● UT283A

SPECIFICATION	Range	Accuracy
Certificates	CE, RoHS	
Voltage (V)	10V-1000V AC/DC	±0.5%U _{din}
AC current (A)	10A/100A/1000A	±0.5%f.s.
Frequency (Hz)	40-70Hz	±50mHz
Power (W)	>15%S	±1%S
Power factor	0-1	±0.02
Energy (Wh)	0-9999MWh	±1.5%rdg
Crest factor	1 to 10	±5%
Voltage harmonics or inter-harmonics	U _m ≥ 3%U _{nom} (1-51th, step 0.5th) U _m < 3%U _{nom} (1-51th, step 0.5th)	±5%U _{rms} ±0.15%U _{nom}
Current harmonics or inter-harmonics	I _m ≥ 10%I _{nom} (1-51th, step 0.5th) I _m < 10%I _{nom} (1-51th, step 0.5th)	±5%I _{rms} ±0.5%I _{nom}
Power harmonics	(1-51th, step 1th)	Calculated based on voltage and current amplitude and phase accuracy
Transients	±6000V Peak, F _{sample} =2MHz	±5%rdg, ±5%f.s
Dip/swell/interrupt	0-1000V AC	U _{din} ± 1%
AC inrush current (A)	10A/100A/1000A	±1%f.s
Resistance (Ω)	600Ω/6kΩ/60kΩ/600kΩ/6MΩ/60MΩ	±(1%+3)
Capacitance (F)	60nF/600nF/6μF/60μF/600μF	±(4%+20)
Category rating	CAT II 1000V, CAT III 600V	
GENERAL CHARACTERISTICS		
Power	Li-ion battery: 7.4V 3600mAh	
Display	70mm x 52mm; 3.5 inches 64K color TFT LCD (320 x 240)	
Product net weight	808.4g	
Product size	199mm x 118mm x 49mm	
Standard accessories	Power adaptor, power cord, test leads, test probes, alligator clips, current clamp (10A/100A/1000A), USB interface cable, SD card (8GB), English manual	
Standard individual packing	Gift box, carrying bag	
Standard quantity per carton	1pcs	
Standard carton measurement	342mm x 98mm x 305mm	
Standard carton gross weight	3.4kg	

INFRARED THERMOMETERS

Infrared thermometer plays an important role in production, quality control and inspection, equipment protection, energy saving, etc.

Infrared thermometer measures temperature through non-contact method, producing quick and accurate results, it allows users to measure extreme temperatures at a safe distance.

