

**UNI-T**

**UT285C** NEW  
Three Phase Power Quality Analyzer



Transformer K factor

**PF/DPF  
/COSΦ**

Power factors (PF) and displacement factors (DPF or COSΦ)

**PST**

Short-term voltage flicker (PST)



Three phase unbalance (current and voltage)

**USB/PC**

USB interface/PC software



Waveform real-time display (4 channels voltage/4 channels current).



True RMS values of voltages and currents



Peak current and voltage values



Total harmonic distortion (THD)



Active, reactive, apparent power, by phase and cumulative

Specifications	UT285C	
True RMS phase-to-neutral voltage	1.0V~1000V	±(0.5%+5dgt)
True RMS phase-to phase voltage	1.0V~2000V	±(0.5%+5dgt)
DC voltage	1.0V~1000V	±(1.0%+5dgt)
True RMS current	10mA~1000A	±(0.5%+5dgt)
Peak of phase-to-neutral voltage	1.0V~1414V	±(1.0%+5dgt)
Peak of phase-to-phase voltage	1.0V~2828V	±(1.0%+5dgt)
Current peak	10mA~1414A	±(1.0%+5dgt)
Active power	0.000W~9999.9kW	±(1%+3dgt), Cosφ≥0.8 ±(1.5%+10dgt), 0.2≤Cosφ<0.8
Reactive power, inductive or capacitive	0.000RVA~9999.9kVAR	±(1%+3dgt), Sinφ≥0.5 ±(1.5%+10dgt), 0.2≤Sinφ<0.5
Apparent power	0.000VA~9999.9kVA	±(1%+3dgt)
Power factor	-1.000~1.000	±(1.5%+3dgt), Cosφ≥0.5 ±(1.5%+10dgt), 0.2≤Cosφ<0.5
Active energy	0.000Wh~9999.9MWh	±(1%+3dgt), Cosφ≥0.8 ±(1.5%+10dgt), 0.2≤Cosφ<0.8
Reactive energy, inductive or capacitive	0.000VARh~9999.9MVARh	±(1%+3dgt), Sinφ≥0.5 ±(1.5%+10dgt), 0.2≤Sinφ<0.5
Apparent energy	0.000VAh~9999.9MVAh	±(1%+3dgt)
Phase angle	-179°~180°	±(2°)
Tanφ (VA>50VA)	-32.76~32.76	φ:±(1°)
Phase shift of power factor (DPF)	-1.000~1.000	φ:±(1°)
Harmonic ratio (order 1 to 50) (Vrms>50V)	0.0%~99.9%	±(1%+5dgt)
Harmonic angle (Vrms>50V)	-179°~180°	±(3°) harmonics of order 1 to 25 ±(10°) harmonics of order 26 to 50
Total harmonic ratio	0.0%~99.9%	±(1%+5dgt)
Distortion factor (DF or THD-R)<50	0.0%~99.9%	±(1%+10dgt)
Transformer K factor	1.00~99.99	±(5%)
3 phases unbalance	0.0%~100%	±(1%)
Number of channels	4U/4I	
Parameters of electricity	W, VA, Var, PF, DPF, cosφ, tanφ	
Energy parameters	Wh, Varh, Vah	
Harmonic	50	
Total harmonic distortion	Order 0~50, each phase	
Expert mode	√	
Number of Transient records	150 sets	
Min/Max	√	
Alarm	40 different types of parameter selections, 12,800 sets alarm logs	
USB interface/PC software	√	
Power	9.6V rechargeable lithium-ion battery	
Product color	Red and grey	
Product net weight	Instrument: 1.6kg, current clamp: 510g x 4	
Product size	240mm x 170mm x 68 mm	
Standard accessories	1pc carry cloth bag, (yellow, green, red, blue, black total 5pcs test lead), 4pcs alligator clip, 1pc power adapter, 1pc CD software, 4pcs 1000A current clamp	
Standard individual packing	Inner carton	
Standard quantity per carton	1pc	
Standard carton measurement	440 x 320 x 330mm	
Standard carton gross weight	6.4kg	