

UT285C

Three Phase Power Quality Analyzer



Transformer K
factor



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



Short-term voltage
flicker (PST)



Three phase
unbalance (current
and voltage)



USB interface
/PC software

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 ±(1%+3dgt)
Reactive power, inductive or capacitive	0.000RVA~9999.9kVAR	Sinφ≥0.5 ±(1.5%+10dgt) 0.2≤Sinφ<0.5 ±(1%+3dgt)
Apparent power	0.000VA~9999.9kVA	±(1.5%+3dgt) Cosφ≥0.5 ±(1.5%+10dgt) 0.2≤Cosφ<0.5 ±(1%+3dgt)
Power factor	-1.000~1.000	Cosφ≥0.8 ±(1.5%+10dgt) 0.2≤Cosφ<0.8 ±(1%+3dgt)
Active energy	0.000Wh~9999.9MWh	Sinφ≥0.5 ±(1.5%+10dgt) 0.2≤Sinφ<0.5 ±(1%+3dgt)
Reactive energy, inductive or capacitive	0.000VARh~9999.9MVARh	±(1.5%+10dgt) 0.2≤Sinφ<0.5 ±(1%+3dgt)
Apparent energy	0.000VAh~9999.9MVAh	±(2°)
Phase angle	-179°~180°	φ:±(1°)
Tanφ (VA>50VA)	-32.76~32.76	φ:±(1°)
Phase shift of power factor (DPF)	-1.000~1.000	±(1%+5dgt)
Harmonic ratio (order 1 to 50) (Vrms>50V)	0.0%~99.9%	±(3°) harmonics of order 1 to 25 ±(10°) harmonics of order 26 to 50
Harmonic angle (Vrms>50V)	-179°~180°	±(1%+5dgt)
Total harmonic ratio	0.0%~99.9%	±(1%+10dgt)
Distortion factor (DF or THD-R)<50	0.0%~99.9%	±(5%)
Transformer K factor	1.00~99.99	±(1%)
3 phases unbalance	0.0%~100%	
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, 4pcs 1000A current clamp Inner carton	
Standard individual packing	1pc	
Standard quantity per carton	440 x 320 x 330mm	
Standard carton measurement	6.4kg	
Standard carton gross weight		



Current

008B current clamp: 10mA~10.0A; (Optional)
040B current clamp: 0.10A~100A; (Optional)
068B current clamp: 1.0A~1000A; (Standard)
300F flexible current sensor (with Integrator): 10A~6000A (Optional)