

UT285C Three Phase Power Quality Analyzer



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



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 |
| 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) ±(1.5%+3dgt) |
| Power factor | -1.000~1.000 | 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 | |