

PQube® 3 CTI-5A Module

Ultra-accurate way to connect to 5-amp CT secondaries

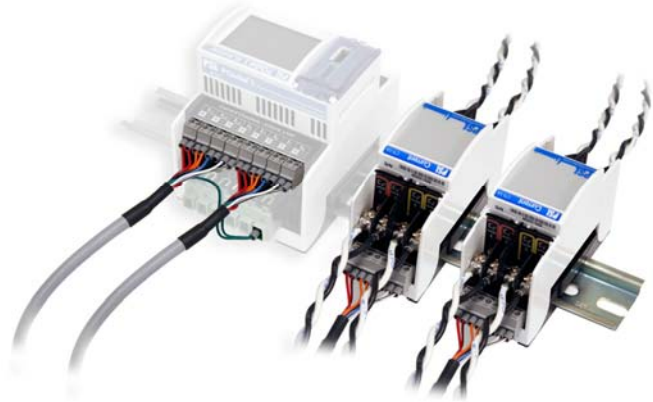


Connect 5-amp CT's (Current Transformers) to your PQube®3

Connect your 5-amp output CT's (e.g. 1000:5, 100:5, etc.) to your PQube 3. The CTI-5A module is an ultra-accurate interface to metering and/or protection CT's.

Each CTI-5A module connects up to four 5-amp CT's. Use as many CTI-5A modules as you need; the only limitation is the number of current channels on your PQube 3.

Your PQube 3 automatically calculates all of its current and power values – just type your CT ratio into your PQube 3's Setup.ini file, and your PQube®3 will do the rest. AND every CTI-5A module comes with an individual Calibration File and NIST-trace Certificate, guaranteeing laboratory-grade accuracy!



Product Highlights

- Ultra-accurate – fully Certified to IEC 62053-22 Class 0.2 revenue accuracy, IEC 61000-4-7 Class I harmonic accuracy – and unlike most other instruments, this certification includes both your PQube®3 accuracy and your CTI-5A accuracy, combined!
- Ultra-safe – the 5-amp withstand capability is 250 amps for 1 second without damage.
- Ultra-compatible – less than 1 VA burden on your CT, easily compatible with existing instrument/meter/protection transformers.
- Ultra-convenient – DIN-rail mounting, no power required – you can mount CTI-5A up to 5 meters distant from your PQube®3 .
- Ultra-harmonic accuracy – fully certified to IEC 61000-4-7 Class A harmonic current requirements!

Specifications

	Typical	100% factory test: Pass/Fail limit	Specification	Notes
Accuracy X% rdg ± X% FS	±0.025%	±0.05%	±0.10%	At 50/60 Hz, 2,5%FS~120%FS.
Accuracy – phase angle	±0.03°	±0.05°	±0.1°	At 50/60 Hz, 2,5%FS~120%FS. Typical angle accuracy specification is limited by the accuracy of PSL Reference Meter.
Nominal full scale	5.0 amps RMS	5.0 amps RMS	5.0 amps RMS	
Crest factor	3.3	-	3.0	For accurate high-harmonic current measurements
Nominal frequency	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	
Calibrated frequency range	50 Hz ~ 3.0 kHz	50 Hz ~ 3.0 kHz	50 Hz ~ 3.0 kHz	Calibrated to 50 th harmonic at 50/60 Hz, per IEC 61000-4-7 Accuracy Class I
Max overcurrent	500 amps, 1 second	-	250 amps, 1 second	Applied to 5-amp terminals without damage
Isolation	15 kV	7.6 kV	5 kV	Current terminals to signal terminals
CT secondary screw size	#8-32 / M4	#8-32 / M4	#8-32 / M4	For #8 / M4 ring lug terminal
Screw torque: recommended	8 in-lbs / 90 N-cm	8 in-lbs / 90 N-cm	8 in-lbs / 90 N-cm	
Screw torque: limit	13 in-lbs / 147 N-cm	-	10 in-lbs / 113 N-cm	
Screw axial load: limit	100 lbs / 45kg	-	30 lbs / 13 kg	

IEC 62053-22 Certified Influence Quantities: Load, Power Factor, Voltage, Ambient Temperature, Frequency, Phase Sequence, Harmonics, Subharmonics, AC magnetic field, DC magnetic field, RF fields, Conducted RF, Fast Transient Burst, Oscillatory impulse

Order Information

- PSL model number CTI-5A-00
- Each CTI-5A module can connect one, two, three, or four 5-amp CT's to your PQube®3.
- Your CTI-5A comes with a 16" / 40cm shielded cable for connecting it to your PQube® 3 current channel screw terminals. (Contact the factory if your application requires a longer cable.)



PQube® 3 CTI-5A Module - Revision 4

Power Sensors Ltd. 980 Atlantic Ave, Alameda CA 94501, USA

Tel ++1-510-522-4400 Fax ++1-510-522-4455 www.PowerSensorsLtd.com