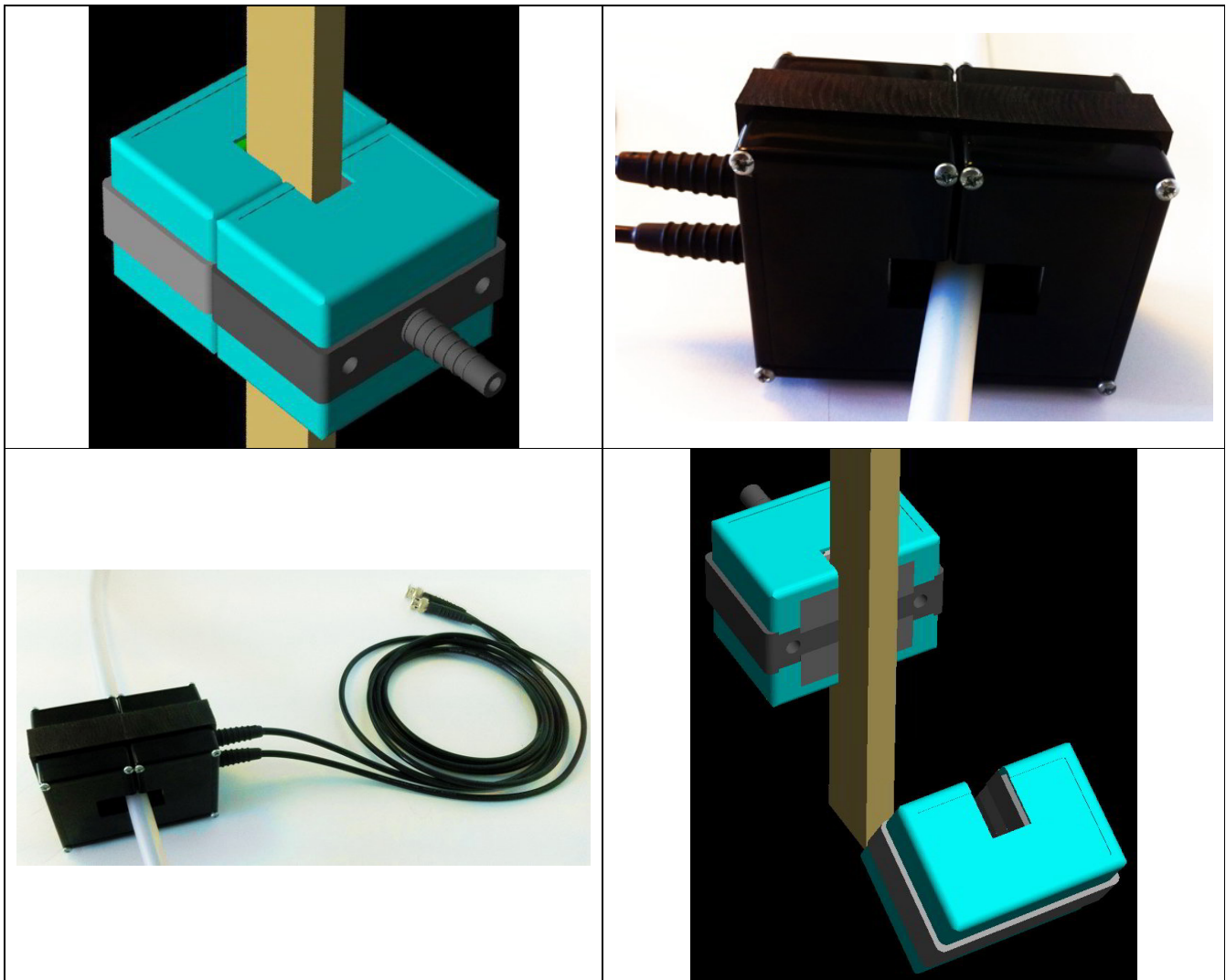


SURETECH

Split Core CT (Current Transformer)

Single-phase current sensor up to 1kAmps ac

- ✓ SURETECH SC-CT split core current transformers can be used in a wide range of current measurement applications up to 1kAmps, on power frequencies and wide bandwidth harmonics
- ✓ SURETECH SC-CT can be used to measure current in external CT wires without breaking into the wiring
- ✓ The SC-CT plugs directly into various current processing instruments such as transducers giving 4-20mA out, or SURETECH SLP (Smart Load Processor) for data logging
- ✓ SLPs are used for Analog to Digital sampling and further processing with other signals such as voltage, phase angle etc., where power (real, apparent and reactive) can be extracted
- ✓ Accuracy 0.5%
- ✓ SURETECH SC-CT sensors have been value engineered to be cost effective, easy to deploy for either temporary or permanent current measurement applications
- ✓ SURETECH SC-CT takes insulated wiring up to 7mm outside diameter; for thinner wire carrying low currents, the wire could be looped through the SC-CT a number of times to increase the transformer ratio
- ✓ SURETECH SC-CTs single phase, are mounted in very tough black polycarbonate enclosure, are potted in resin, with dimensions 106mm x 76mm x 56mm, results in extremely rugged device



SC-CT General Features:

- ✓ Moulded in solid resin for ruggedness, reliability, long life, stability and easy application
- ✓ M6 screws for positive clamping of cores
- ✓ Magnetic material is GOSS (Grain Oriented Silicone Steel) for the best accuracy
- ✓ Face ground paired cores, ensure good mating of the split core resulting in excellent accuracy and stability
- ✓ Guides ensures accurate alignment, and hence electrical accuracy and repeatability
- ✓ Rubberised strain relief
- ✓ BNC connector plugs directly into SLP for simple interface
- ✓ Standard cable tail length: 2m (other lengths available on request)
- ✓ Black polycarbonate enclosure 72mm x 50mm x 40mm
- ✓ NON Split-core CT version is available and is more accurate, but requires threading of wire through the hole, user can specify aperture size and shape
- ✓ Insulation is provided by user's cable
- ✓ Mounting options available on enquiry
- ✓ Single phase SC-CT sensors can be supplied with built-in signal processing or stand alone
- ✓ Galvanic isolation from source

SC-CT Applications:

- ✓ Current measurements, monitoring, logging of 50/60Hz power systems
- ✓ Lightning induced currents having bandwidths to beyond 10kHz
- ✓ Harmonic current sampling of power systems
- ✓ Earth resistance monitoring, which uses an additional core for high frequency current injection
- ✓ Switching current surge monitoring having frequency components to beyond 10kHz
- ✓ Multi-channel current monitoring systems
- ✓ Cable and conductor theft and degradation
- ✓ Earth mat integrity sampling



SURE Engineering CC

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