

## CURRENT TRANSFORMER

**SCT-T24 100A/5A**  
**SCT-T24 200A/5A**  
**SCT-T36 400A/5A**  
**SCT-T36 600A/5A,**  
**SCT-T50 800A/5A**



## OPERATING MANUAL

*Quality control system on the development and production complies with requirements  
ISO 9001:2015*

### **Dear customer,**

Company NOVATEK-ELECTRO Ltd. thanks you for purchasing our products.  
You will be able to use properly the product after carefully studying the Operating Manual.  
Keep the Operating Manual throughout the service life of the product.

Review the Operating manual before using the product

This product is safe for use in case of compliance with operating rules.

**ATTENTION!** ALL REQUIREMENTS OF THIS OPERATING MANUAL ARE COMPULSORY TO BE MET!



**ATTENTION!** It is not allowed to leave the secondary winding of the current transformer unconnected if the measured current is passing through the primary winding.

TO ENSURE SAFE OPERATION OF THE SCT-T, IT IS STRICTLY FORBIDDEN TO USE PRODUCTS WITH MECHANICAL DAMAGE TO THE CASING.

During operation and maintenance the regulatory document requirements must be met, namely:

- Regulations for Operation of Consumer Electrical Installations;
- Safety Rules for Operation of Consumer Electrical Installations;
- Occupational Safety when in Operation of Electrical Installations.

Installation, adjustment and maintenance of the product must be performed by qualified personnel having studied this Operating Manual.

In compliance with the requirements of this Operating Manual and regulations the product is safe for use.

This operation manual is intended for description, principle of work, construction, mode of work and maintenance of the SCT-T series Current Transformer of the following models: SCT-T24 100A/5A, SCT-T24 200A/5A, SCT-T36 400A/5A, SCT-T36 600A/5A, SCT-T50 800A/5A (hereinafter referred to as the product, SCT-T).

**Terms and abbreviations:** EN 60947-1; EN 55011.

*Harmful substances, in more than allowed concentration, are not available.*

### 1 APPLICATION

SCT-T series split core current transformers are designed for quick and easy installation. Split core transformers are ideal for installation on an existing electrical network by snapping the product around the conductor. This method allows for a safer, simpler and more portable current measurement.

### 2 TECHNICAL CHARACTERISTICS

- Rated primary currents depending on SCT-T model: 100 A, 200 A, 400 A, 600A, 800 A (AC)
- Secondary current: 5 A
- Accuracy: see table 1
- Insulation voltage: 600 V AC
- Maximum voltage: 2000 VAC (insulated conductor)
- Operating temperature: -15 ... 55 °C
- Frequency range: 50-400Hz
- Degree of protection: IP 20
- Relative humidity: 5 - 85%

**Table 1**

Model	R <sub>H</sub> (Ω)	Inner window diameter	Dimensions (HxBxL)	Rated primary current (I <sub>n</sub> )	Accuracy		
					from 5% to 120% I <sub>n</sub>	2 × I <sub>n</sub>	3 × I <sub>n</sub>
<b>SCT-T24 100A/5A</b>	≤ 0.05	24 mm	67x35x54 mm	100 A	1,5 %	10 %	-
<b>SCT-T24 200A/5A</b>	≤ 0.1	24 mm	67x35x54 mm	200 A	1 %	1 %	5 %
<b>SCT-T36 400A/5A</b>	≤ 0.1	36 mm	87x43x68 mm	400 A	1 %	1 %	5 %
<b>SCT-T36 600A/5A</b>	≤ 0.1	36 mm	87x43x68 mm	600 A	1 %	1 %	5 %
<b>SCT-T50 800A/5A</b>	≤ 0.1	50 mm	120x60x100 mm	800 A	1 %	1 %	5 %

**Notes:** R<sub>H</sub> is the load resistance in the secondary circuit.

### 3 PRODUCT DESCRIPTION

The SCT-T consists of an openable core with a hole for the primary winding and a secondary winding wound around the core. The whole structure is placed in a plastic insulating case.



A bus or cable is passed through the opening of the magnetic circuit, which serves as the primary winding of the product. For ease of installation, the magnetic circuit is made detachable. The product is fastened to the

conductor, which serves as the primary winding, using plastic clamps. Terminal blocks of the secondary winding have flexible leads soldered into the housing.

The current flowing through the secondary of an SCT-T is proportional to the current flowing through its primary.

**4 SERVICE LIFE AND WARRANTY**

Service life – is 3 years. Contact manufacturer upon the expiry of the service life.

Guaranteed storage life – is 3 years.

Warranty period of the product operation is 1year from the date of sale.

**ATTENTION! IF THE PRODUCT HAS BEEN OPERATED WITH VIOLATION OF THE REQUIREMENTS OF THIS OPERATION MANUAL, BUYER WILL FORFEIT THE RIGHT TO WARRANTY SERVICE.**

Warranty service is performed at the place of purchase or by the Manufacturer of the product.

Post-warranty service is performed by the Manufacturer at current rates.

Before sending for repair, the product should be packed in the original or other packaging excluding mechanical damage.

*Earnest request: indicate the reason for return in the notice of faults field at the return of the device or in case of submitting for warranty service or post-warranty service.*

**5 TRANSPORTATION AND STORAGE**

The product in the shipping box should be stored indoors at a temperature of -45 to +60 °C and relative humidity of no more than 80% with no vapors available in the air.

**6 ACCEPTANCE CERTIFICATE**

SCT-T is manufactured and accepted in accordance with the applicable technical documentation and considered as fit for use.

Head of quality division

Date of manufacture

\_\_\_\_\_

\_\_\_\_\_

Stamp

**7 NOTICES OF CLAIMS**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

*The Company is grateful to you for the information about the quality of the device and suggestions for its operation.*



With questions and comments, please contact manufacturer at the following address:

**"Novatek-Electro" Ltd.**

**59, Admiral Lazarev str.,**

**Odesa, Ukraine, 65007.**

**Tel: +38 048 738-00-28; +38 0482 37-48-27;**

**Fax: +38 0482 34 36 73.**

**www.novatek-electro.com**

Sale date \_\_\_\_\_