



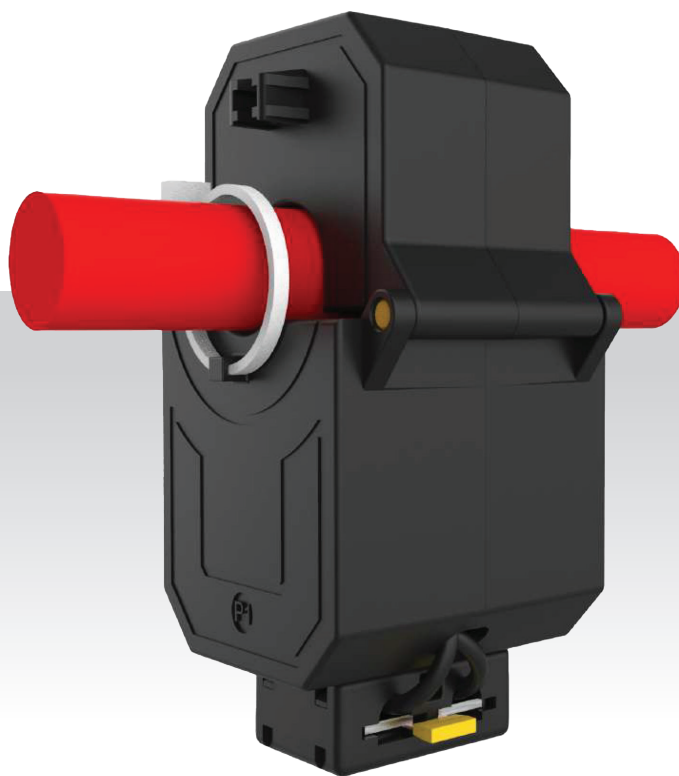
sifam tinsley
PRECISION INSTRUMENTATION

CURRENT TRANSFORMERS
www.sifamtinsley.co.uk



OPERATING MANUAL

Issue 1



Multifunction Meters
Transducers & Isolators
Temperature Controllers
Converters & Recorders
Digital Panel Meters
Current Transformers
kWh Energy Meters
Analogue Panel Meters
Shunts
Digital Bargraphs
Digital Multimeters
Protection Relays
Synchroscope Series
Rotary Switches
Power Supplies
Test & Measurement

COMPACT SPLIT CORE CT

SUBJECT TO CHANGE WITHOUT NOTICE

This datasheet superseded all previous versions – please keep for future reference

Indication

Before initial operation we ask you to pay full attention to these assembling instructions in order to guarantee the reliability and to ensure the performance of the device.

Functional description

Current transformers of the model range Compact SCCT are inductive single conductor-current transformers operating according to the transformer principle. Due to the applied measuring principle, current transformers of this type may only be installed in alternating current (AC) networks.

Sifam Tinsleys Compact Split Core CT are to be used Only with Insulated Primary Conductors.

Assembly

1. Ensure a safe work environment during assembly, maintenance and inspection operations. If necessary interrupt the current supply of the primary conductor and take precautions against unintentional switching.
2. Open the current transformer and fix it on the primary conductor using the Cable Tie or Fixing clamps provided with the mounting kit.

P1: Direction of power supply

P2: Direction of power source

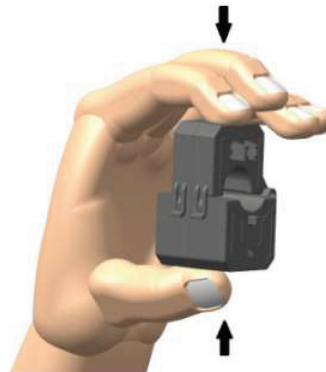
Attention: (i) Do not close the current transformer, high voltages may appear on the open secondary leads.

(ii) Check for cleanness of the cut surfaces of the split core.

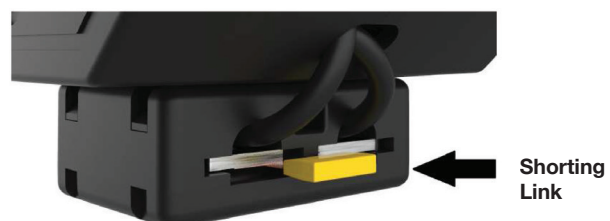
3. Connect the secondary wires of the current transformer with the measuring device (ampere meter, energy meter). Pay attention to the installation guide of the measuring device.

Kindly follow the below procedure :-

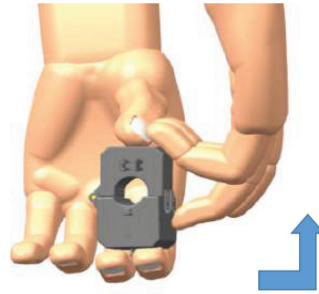
STEP 1: Press the CT from both the sides before unlatching the clicks as shown in figure below.



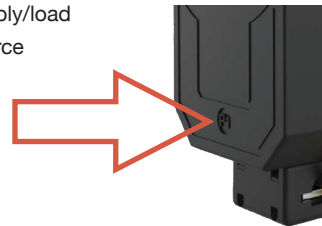
STEP 2: If the CT is being installed on a system that is powered (Not recommended, please ensure all power is switched off before installation) or there is a delay in connecting the secondary connections, install the short link provided as shown in the figure below. Only remove it when final secondary connections are made (Step 5). Never allow the CT secondary to become open circuit when current is flowing through the primary conductor.



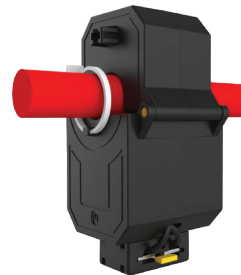
STEP 3: Now unlatch the clicks and install the CT over the primary cable/busbar/conductor. Then latch the clicks properly the CT in position. Please ensure P1 faces the load (P1 to P2 current flow, Note marked on the body of the CT is P1 and P2).



P1: Direction of power supply/load
P2: Direction of power source



STEP 4: Use a suitable fixing method to secure the CT in the correct position around the primary conductor (busbar fixings or cables are provided). Note Do not force the CT over the primary conductor as this could damage the insulation on the CT.



STEP 5: Connecting secondary side of the CT to Meter/measurement device (Important..please remove the Shorting Link). Make the secondary connections using the shortest usable length of a suitable sized cable. Select the cable diameter in accordance with the required length so as not to over burden the CT. (Wires are provided 1.5metres). Ensure that S1 and S2 connections are correctly mated, as wiring diagram shown.

STEP 6: Check whether the current transformer is assembled correctly, and the secondary leads are connected properly. Ensure that the mating faces of the split core CT cores are clean and free from damage and debris before mating the two halves of the CT together. To ensure stated performance the sections of core must be properly aligned, and the clamping mechanism is done up tightly.

Safety instructions



In order to avoid personal and material damage the following assembling steps must be performed only by authorised, qualified and trained personnel.

If the secondary circuit is operated without a burden/load (open) high voltages may appear. These voltage values are dangerous for persons as well as for the functional reliability of the current transformer.



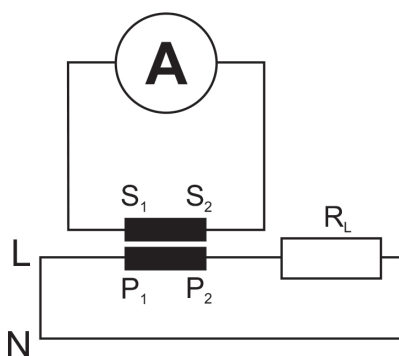
It is forbidden to operate the current transformer without a secondary circuit (open)!

Always use Shorting link to short the secondary terminals before opening the secondary circuit.

Technical parameters

Primary current:	60A to 500A	Altitude:	up to 1000 m
Secondary current:	1A or 5A	Degree of protection:	IP1 0
Accuracy class:	0.5, 1 & 3	Degree of pollution:	2
Instrument Security Factor:	FS5, FS10, FS15	Ambient temperature:	-25 °C ≤ ϑ ≤ +40°C (0... 95% relative humidity, non condensing!)
Rated frequency:	50Hz or 60Hz (Whichever is specified)	Storage temperature:	-50 °C ≤ ϑ ≤ +80°C
Rated continuous thermal current (standard):	1,2 x I _n	Applied standards:	IEC - 61869 - 1&2 : Performance IEC - 61010 - 2 : Safety.
Rated short time thermal current I _{th} :	60 x I _n , 1 s (Max 40kA)		
Rated isolation level:	0,6/3/-kV		
Place of installation:	Indoor		

Wiring diagram



Environmental instruction

When the product has reached it's "end of life", it must be recycled. Pass it to an electrical waste disposal. Do not dispose as unsorted municipal waste!



This product was developed and manufactured in accordance with the applicable regulations (IEC 61010, IEC 61869) and meets the requirements of the low voltage guideline 2006/95/EG



Contact



Sifam Tinsley Instrumentation Ltd

1 Warner Drive
 Springwood Industrial Estate
 Braintree
 Essex
 CM7 2YW

Tel: 01376 335271
 Email: sales@sifamtinsley.com

www.sifamtinsley.co.uk