

The Ritherdon CT Chamber

When an electrical installation is provided, there is always a need to meter the supply so that the electricity supplier can bill their customer for the electricity consumed. When a current is too high to measure directly or the voltage of the circuit is too high, a current transformer can be used to provide an isolated lower current in its secondary which is proportional to the current in the primary circuit. The induced secondary current is then suitable for measuring using an electricity meter.

The Ritherdon CT Chamber was designed and tested according to the specifications of **UK Power Networks** who manage the electricity supply network in the southeast of England. The Ritherdon CT Chamber is an insulated enclosure made to mount the electricity meter and to house the CTs and is a tamper proof and sealable unit. However, it is designed with safety in mind along with quick and easy installation. The Enclosure is supplied separately to the backplate so that weight is not an issue. The backplate is easily secured inside the enclosure after it has been mounted onto the cut-out and fixed to the wall. The individual covers which protect the electrician allow work to be carried out in the CT Chamber on one phase without having to isolate the complete unit.

Key Features and Benefits:

- Lugging tool not required
- UMT300 (4364-145) cable clamps with double headed shear bolt.
- Switch off and safely work on a single phase
- CTs quickly and securely clip onto terminal rail
- Current feeds in the bottom and out the top
- Pre-Wiring is included for connection to CTs and Meter
- Safe and easy to operate testing unit
- Approved & Specified by UKPN and their Preferred Supplier
- Can be installed by a qualified electrician
- Rating up to 309 kVA / 430 Amps

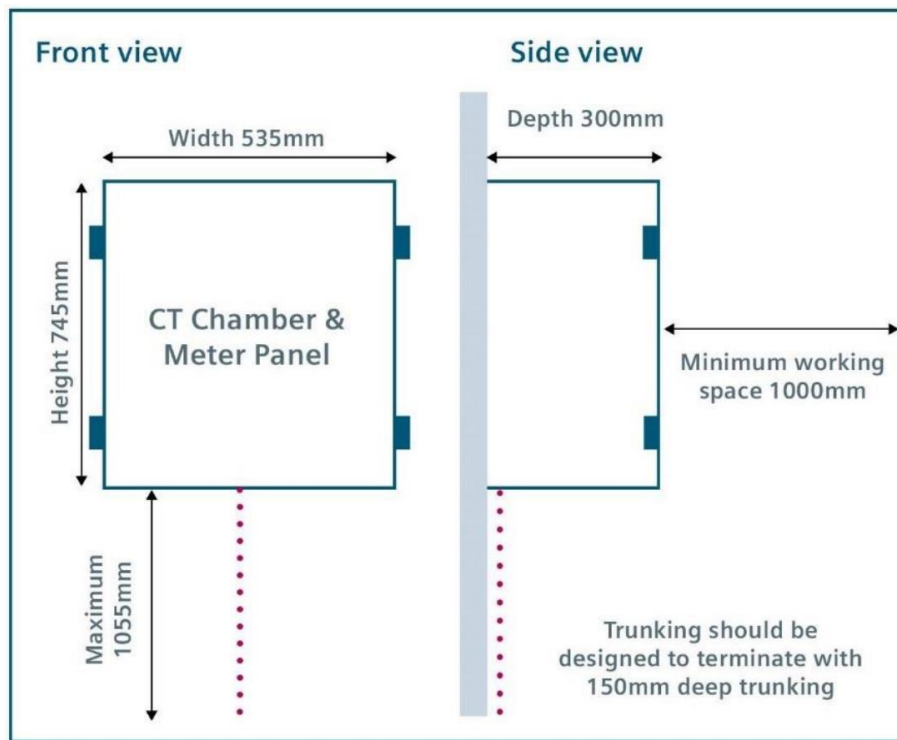


CT Chamber for Building Network Operators (BNOs)

The Distribution Network Operator (DNO) will not be responsible for the risers and laterals to multi occupied buildings. Accordingly, the electrical contractor will be required to install their own electrical connection within the building. Areas which often prove to be very challenging are the installation of CT Panels. CT wiring and P283 commission testing is required by the Meter Operator and Energy Supplier. Correct metering type current transformers, connection and secondary wiring of CTs and incorrect tail size can lead to delays in meters being installed and ultimately a delay in the customer building being energised by the Meter Operator or DNO.

Product Data and Dimensions:

The diagram below shows the space requirements for the installation of our CT Panel.



Please ensure that there is adequate space and suitable tails are provided by the site electrician. See the table below which will assist in the correct sizing of the tails.

Maximum power requirement (KVA)	Amps per phase	Conductor size (mm ²)	Bonding conductor size (mm ²)	Recommended trunking size (min)
70-115	100-160	50	16	150 x 150
116-144	161-200	70	25	150 x 150
145-172	201-240	95	25	150 x 150
173-201	241-280	120	35	150 x 150
202-230	281-320	150	35	150 x 150
231-262	321-364	185	50	150 x 225
263-309	365-430	240	50	150 x 225

Please contact our technical team if you require a more detailed report of the testing or if you have any other questions and would like to discuss any aspect of this data sheet.