



Current Transformer Metering Chamber (CTMC)

Direct coupled to Lucy heavy duty cut outs

Overview and presentation

All-insulated polyphase LV metering chamber directly coupled to either the Lucy 200A, 400A or 600A heavy duty cut out fitted with cable trough and mounted on a treated plywood back board. Alternatively, the CTMC module can be sourced independently as a retrofit option for assembly to pre-fitted Lucy heavy duty cut outs. The 200A HDCO model requires an intermediate coupler kit.



(Meter in photos above not supplied)

Features

- Factory configured one piece assembly mounted on 18mm fire retardant plywood
- Accepts up to two polyphase meters with ISO mountings
- Cabling options:
 - Outgoing range taking mechanical leader clamps, two per phase
 - Compression cable lugs on to pre fitted M16 studs
- Two sealable and lockable sequentially opening doors to segregate CT / busbar side from meter connection side single standard tri- head meter key on outer door plus 2 additional sealing points on each of the other doors
- Bolted busbar connections between HDCO and CTMC for reliable connectivity
- Individual integral triple ratio CL 0.5 tri-rated (200/5, 400/5, 600/5) metering class CTs
- DIN rail mounting multiple fuse protection
- Factory fitted modular test block – MOCOP 3 and 5 versions available

Note The equipment described on this data sheet must be installed by suitably qualified personnel according to applicable Local/ National Wiring regulations currently in force.

Low voltage - Cut outs - Current Transformer Metering Chamber (CTMC)

Construction

- Enclosure..... Glass filled polyamide 6
- Coupler housing..... Glass filled polyamide 6
- Internal busbars..... Electro-tin plated copper
- Clear busbar shields..... Polycarbonate
- Modular fuse carriers..... Glass filled polyamide 6
- Busbar connection fixtures..... Passivated mild steel
- Rail mounted terminals..... Polyamide 6
- CT mouldings..... Polycarbonate

Door closure componentry

- Outer door Standard tri-head lock in addition to combi-head screws
- Inner chamber access Combi-head screws
- Inner and outer doors independently sealable with 2mm wire

CT specification

- Meter class CL 0.5 (5VA)
- Tri-rated..... 200/5, 400/5 and 600/5
- Sealable terminal shields fitted to CTs

Performance data

- Rigid busbar rating (400/600A)..... 630A nominal
- Flexible busbar rating (200A) 250A nominal
- Supply voltage..... 240 / 415V a.c.
- Frequency..... 50Hz
- Rated insulation voltage 690V a.c.
- Enclosure flammability..... V2, self extinguishing 30 seconds at 960°C
- Operator protection;
 - Installed condition, doors closed..... IP3X
 - Doors open, all shrouds in place IP2X

Outgoing terminal torques (Tyco leader clamps)

- 200A unit (6mm hex drive)..... 12 – 15Nm
- 400/600A units (6mm hex drive) 22-25Nm

Product characteristics

- Fuse centres 200A/400A 83mm
- Fuse centres 600A 92mm
- Cable csa 200A (incoming) 35-95mm²
(outgoing) 25-150mm²
- Cable csa 400A (incoming) 70-185mm²
(outcoming)..... 95-300m²
- Cable csa 600A (incoming) 95-300m²
(outcoming)..... 95-300m²

Backboard (when supplied)

- Insulated board..... 18mm treated plywood, fire retardant
- Mounting brackets Stainless steel

Standards / conformity

- IP rating to BSEN 60529
- CE approval for Current Transformers
- Current Transformers conform to IEC 60044-1
- Backboard fire retardant to BS 476 Part 7

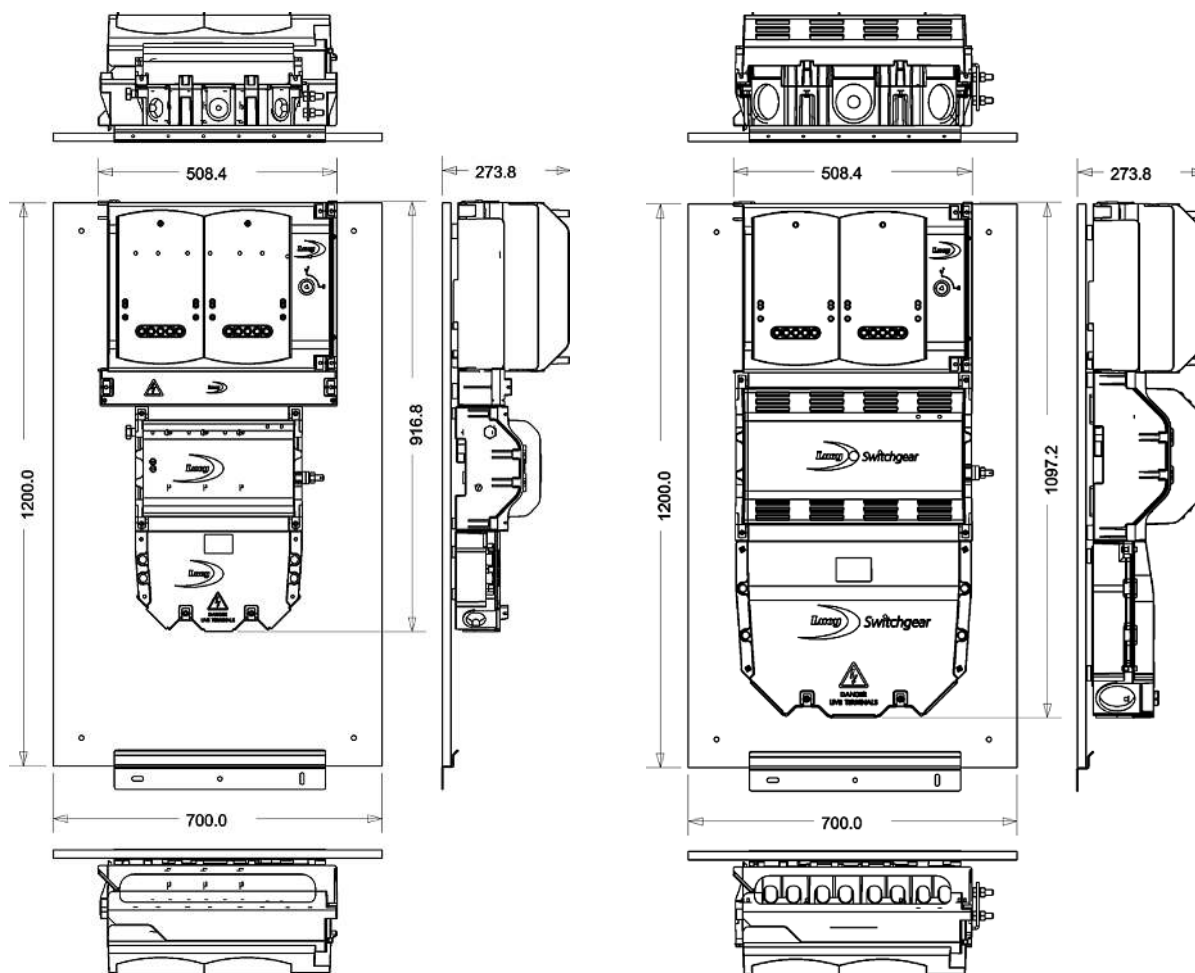
Dimensions

Complete CTMC, HDCO and trough assembly, board mounted

- Board height..... 1200mm
- Board width..... 700mm
- Board thickness 18mm
- Unit height (600A)..... 1100mm
- Unit width (600A)..... 508mm
- Unit depth (600A) 256mm
- Recommended height AGL for cable entry into trough when fitted to backboard..... 300mm
- Fixing points 4
- Weight (without fuses) 55kgs

Low voltage - Cut outs - Current Transformer Metering Chamber (CTMC)

General arrangement and dimensions (mm)



200A HDCO with trough

600A HDCO with trough

Note: 400A HDCO is same size as 600A unit and can be fitted with either 600A or smaller 400A trough (not shown)