

GRIDKEY CABINET TERMINATION AND COMMISSIONING

The Gridkey (Smart joint) Control Cabinet requires both Voltage and Current references for operation. The Voltage references are provided by a standard 3 Phase cut out (100 amp) and appropriate joint as per existing COP 411 LV Section 3, depending upon the passing mains cable. The Current references are provided by a new joint encapsulating current transformers described in jointing procedures 3/502 – 3/504.

Gridkey Cabinet & Enclosure

The Gridkey Cabinet has been pre-assembled with the following items:

Gridkey Control Panel, 100 Amp 3 Phase cut out, In line Voltage fuses & IP 65 enclosure, Earthing leads and Aerial.

It is necessary to install ducting, undertake a joint encapsulating the CT's, Test & Commission the Cabinet.

Cabinet.

1/ Bolt Cabinet base to foundation.

2/ Bolt Cabinet to base unit.

3/ Ensure all Earthing is completed between all metalwork.

4/ Install Ducting as per detail below.

5/ Install CT leads through duct into the cabinet.

6/ Connect the leads in to the Control Panel to the correct Phase Colour.

7/ Install CT joint as per detail in jointing procedures 3/502 – 3/504 depending upon type of passing mains cable.

8/ Install blanking plugs into the Cabinet cable entry spare ways.

9/ Test for Voltage at cut out. Insert 30 Amp cartridge fuses into the fuse carriers. Test for Voltage at the Voltage connection Enclosure.

10/ Test Dial Analyser for Phone/ Sim Card Signal Strength.

11/ Request System Test from Gridkey.

12/ Mix & Pour Resin into CT joint.

Installation of Ducting.

The Gridkey CT leads are to be completely enclosed by 38mm Red Ducting from the Control Cabinet to the joint.

1/ Piece together a complete duct system using straight lengths and manufactured bends. Use a straight piece to enter the joint and a manufactured bend to enter the Cabinet. Ensure a good fit.

2/ Push a draw wire through the duct.

3/ Abraid the duct for 50mm as it enters the joint.