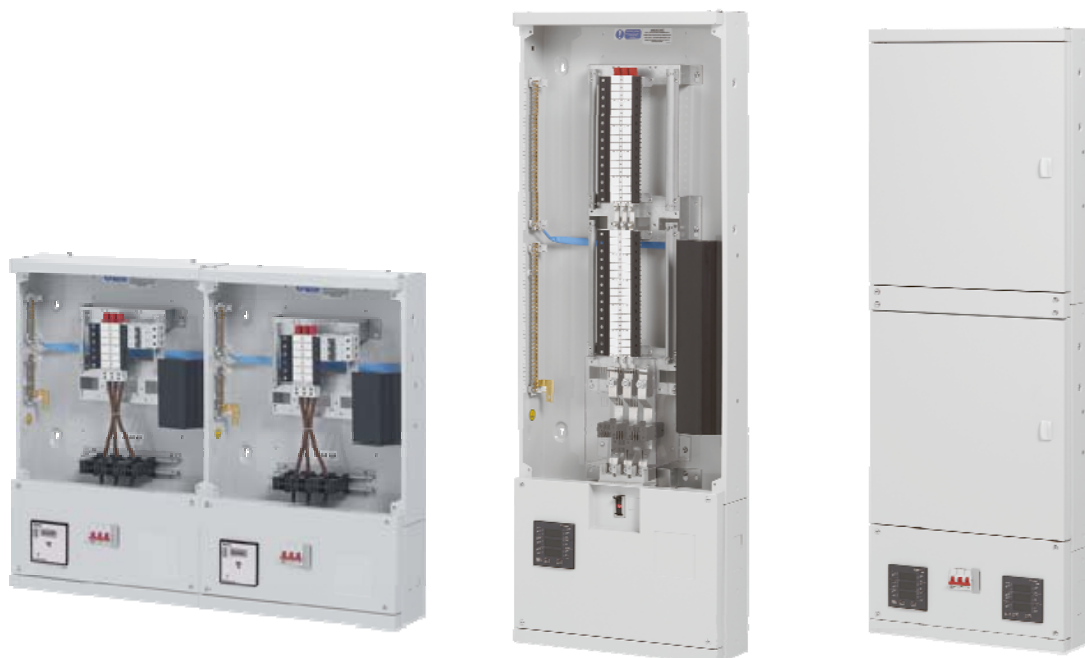


# Installation instructions



## Dorman Smith Loadlimiter 63 Metering and power harnesses



### KITS:

#### Meter/CT harnesses



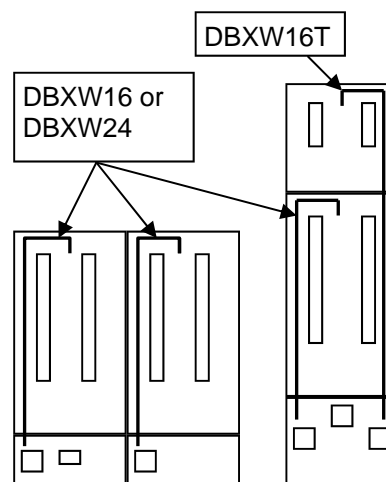
DBXW16 (up to 16 way board)



DBXW24 (20 to 24 way board)



DBXW16T (upto 16 way board)



#### Power harnesses



DBXWP250 (250A incomer linking to a second distribution board)



DBXWP125 (125A incomer linking to a second distribution board)

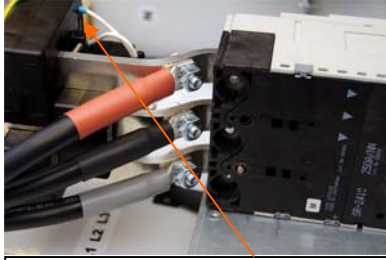
# Installation instructions



## Dorman Smith Loadlimiter 63 Metering and power harnesses

### 250A incomer

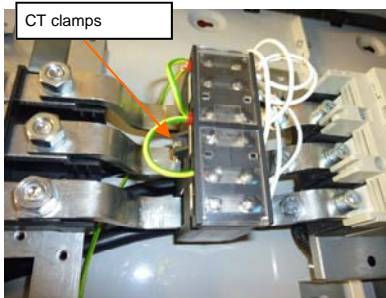
#### Power harness for connection between two distribution boards - DB1 and DB2



**Fig 1:**

- Fit CTs and DBXWP250 cables to copper connections

P1 markings on CTs **must** face source of supply



**Fig 3:**

- CTs clamped to connections



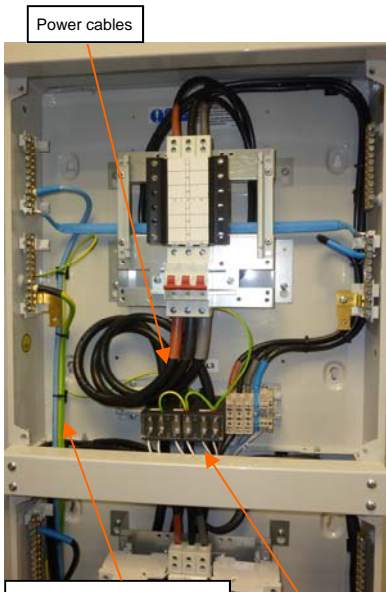
**Fig 2:**

- Route cables up beneath the board DB1



**Fig 4:**

- Connect to busbar of DB1



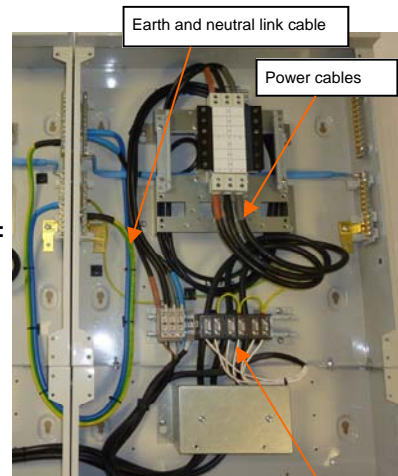
**Fig 5a:**

#### Vertical mounted board

- Feed power cables through CTs of the top DB2
- Connect to either isolator or directly through DBXD0 terminal blocs (excess cable to be coiled)
- Connect neutral and earth between boards

Earth and neutral link cable

P1 markings on CTs **must** face source of supply



**Fig 5b:**

#### Horizontal mounted board

- Route power cables through knockouts into DBMSB, ensure knockout gasket is fitted.
- Feed power cables through CTs of DB2
- Connect to either isolator or directly through DBXD0 terminal blocs (excess cable to be coiled)
- Connect neutral and earth between boards

P1 markings on CTs **must** face source of supply

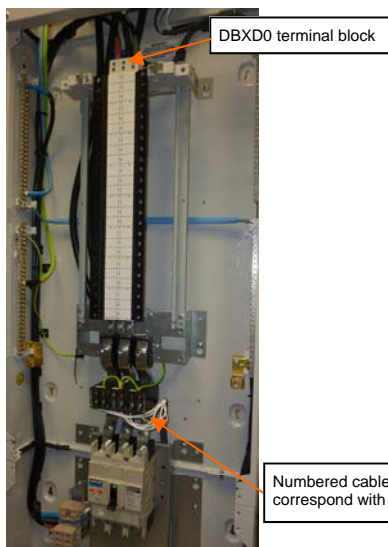
# Installation instructions



## Dorman Smith Loadlimiter 63 Metering and power harnesses

### 250A incomer

#### Meter harness (DB1 board)



**Fig 6:**

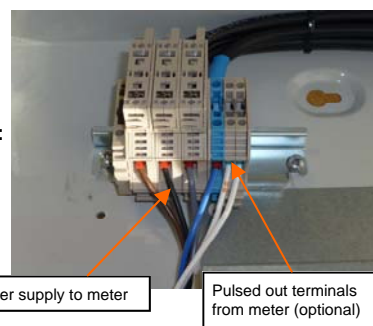
- Connect harness to top of busbar using DBXD0 terminal blocks
- Route harness down side of box to mount fuse carriers on DIN-rail supplied
- Ensure edge gasket is fitted to MCCB mounting plate hole
- Connect CT cables and route under MCCB mounting plate, ready for connection to meter.
- Connect CT earth



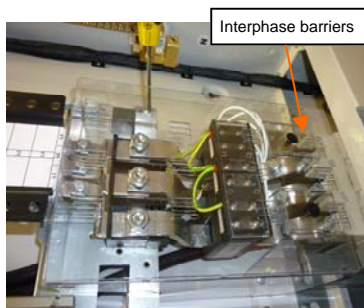
#### Note:

To use CT wiring harness with individual CT's replace the spade terminals with pin terminals

- Fuse carrier arrangement



**Fig 7:**

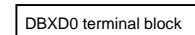


**Fig 8:**

- Fit terminal shroud and barriers

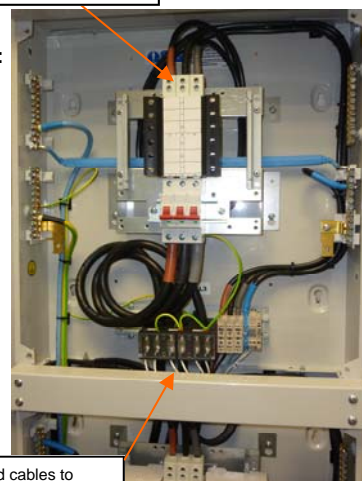
#### Meter harness (DB2 board)

#### Meter harness



**Fig 9:**

- Connect harness DBWX16T if vertically stacked to top of busbar using DBXD0 terminal blocks (coil if required)
- Refer to Fig.14 for horizontal configuration
- Route harness down side of box to mount fuse carriers on DIN-rail strips supplied in joining kit DBXJK
- Connect CT cables and route along with meter harness
- Route harness down side of



**Fig 10:**

- Connect harnesses to meters (Integra 1630 shown)
- Earth bond link to meter panel, supplied in DBXW16 must be connected when meter(s) are fitted



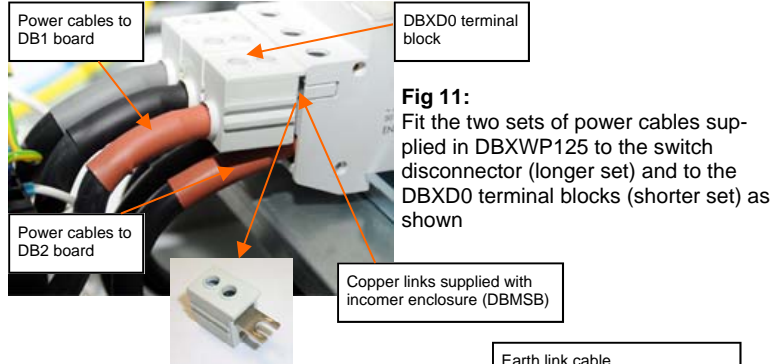
# Installation instructions



## Dorman Smith Loadlimiter 63 Metering and power harnesses

### 125A incomer

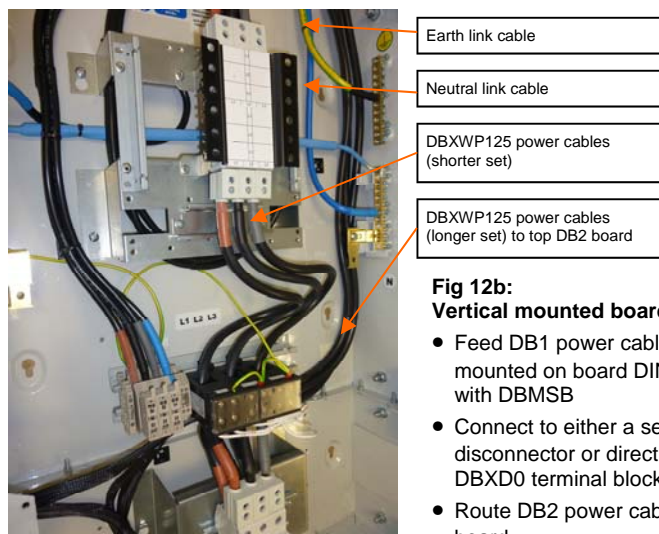
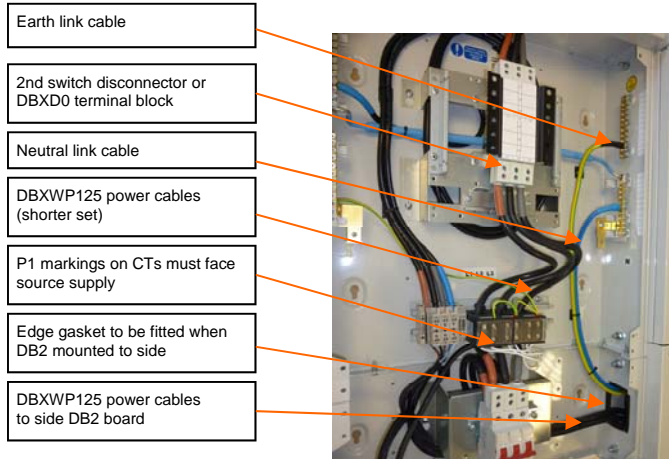
#### Power harness for connection between two distribution boards DB1 and DB2



#### Horizontal mounted board

- Feed DB1 power cables through CTs mounted on board DIN-rail supplied with DBMSB
- Connect to either a second switch disconnector or directly through DBXD0 terminal blocks
- Route DB2 power cable side DB2 board
- Boards to be linked with neutral and earth cables
- Ensure edge gasket supplied is fitted

**Fig 12a:**



**Fig 12b:**  
**Vertical mounted board**

- Feed DB1 power cables through CTs mounted on board DIN-rail supplied with DBMSB
- Connect to either a second switch disconnector or directly through DBXD0 terminal blocks
- Route DB2 power cable to top DB2 board
- Boards to be linked with neutral and earth cables

# Installation instructions



## Dorman Smith Loadlimiter 63 Metering and power harnesses

### 125A incomer

#### Meter harness (DB1 board and DB2 board)



DBXD0 terminal block

Numbered cables to corresponds with meter ID

Fig 13:

- Connect harness DBXW16 or DBXW24 to top of busbar using DBXD0 terminal blocks (coil if required)
- Route harness down the box to mount fuse carriers on DIN-rail supplied with DBMSB
- Connect CT cables and route with meter harness
- Route harness to incomer enclosure for meter connection

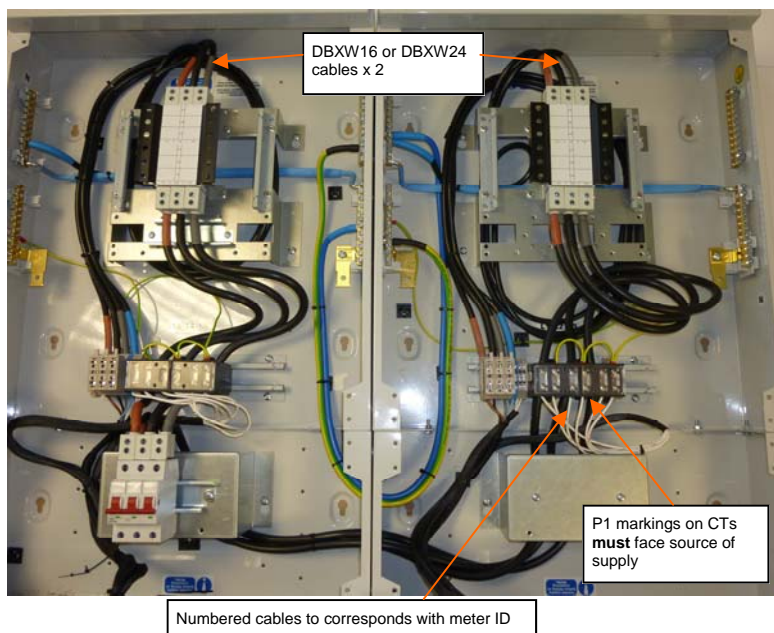


#### Note:

To use CT wiring harness with individual CT's replace the spade terminals with pin terminals

Fig 14:  
Typical horizontal mounted arrangement

- Connect harness DBXW16 or DBXW24 to top of busbar using DBXD0 terminal blocks (coil if required)
- Route harness down the box to mount fuse carriers on DIN-rail supplied with DBMSB
- Connect CT cables and route with meter harness
- Route harness to incomer enclosure for meter connection



DBXW16 or DBXW24 cables x 2

P1 markings on CTs must face source of supply

Numbered cables to corresponds with meter ID



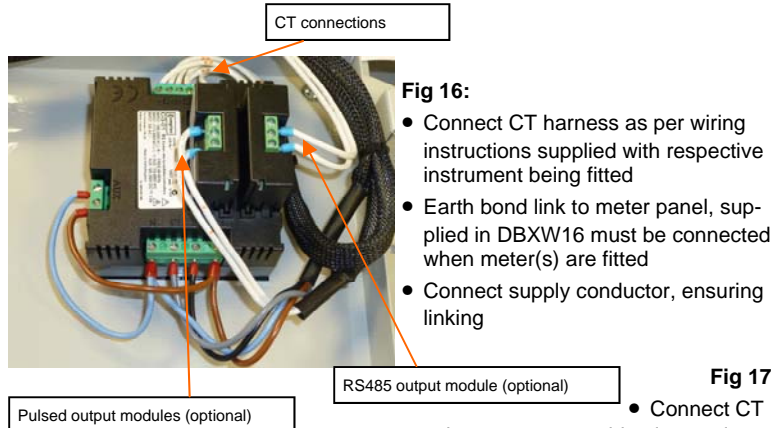
Fig 15:

Refer to page 6 for meter mounting options (Ci1 & Ci3 meters shown)

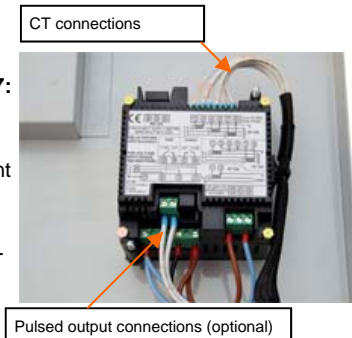
# Installation instructions



## Dorman Smith Loadlimiter 63 Metering and power harnesses Integra Ci3 & Ci1 Digital energy meters



### Integra 1630



Refer to installation instruction sheet supplied with meter for set up

### Kilowatt hour meter (DIN-rail mounted)

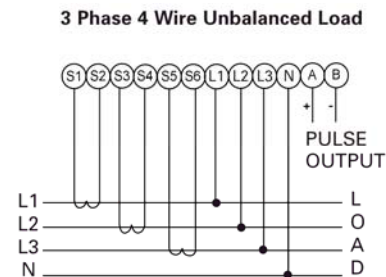
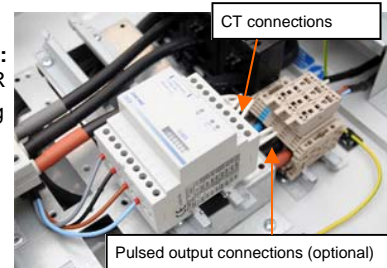


Fig 19:  
DIN-rail meter mounted on DBXCKR

- Connect CT harness as per wiring instructions supplied with respective instrument being fitted



Refer to installation instruction sheet supplied with meter for set up

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