

National Grid Interruptible Load scheme - installation information.

The scheme, which has some differences from the previous IL scheme, has a simple enough set of requirements in terms of interfacing from the customer's equipment.

For all new **Total load** Interruptible sites, a U/F Cabinet will have to be fitted adjacent to the existing Billing Metering equipment. The dimensions of the cabinet are: H600mm W500mm D300mm.

For existing IL sites, the Interruptible equipment and possibly the billing metering will be replaced. At existing sites, the amount of wall space required for replacing existing Interruptible equipment will generally be the same or less than the space occupied by the old equipment.

In many cases the existing metering will be utilised for the U/F scheme. Where existing metering is utilised, a U/F cabinet will be fitted adjacent to the billing metering cabinet.

Where new/additional metering is required, a variation to the standard arrangement will be necessary. This may be a simple modification to the existing billing metering cabinet, the use of a modified/different U/F Cabinet or a combination of U/F Cabinet and an extra metering cabinet.

Customer interface Wiring

Interface wiring will be required between the customer switchgear and the Interruptible cabinet. This interface wiring and any signals which are provided from the metering/Interruptible equipment will be provided by the customer. Details of this will be discussed and agreed.

In general, there are 6 input/output terminals on the U/F panel which interface with the customer's equipment. This will require at least a 6 core interface cable.

The input terminals monitor the status of the Customer Circuit breaker, and the output terminals send out a Trip signal when an UF event occurs and a close/ready to reclose signal when the system has recovered.

There are two status indication inputs required.

1. Circuit Breaker in position and available to trip (typically Normally Closed contact)
2. Circuit Breaker Open status (Typically Normally Open contact)

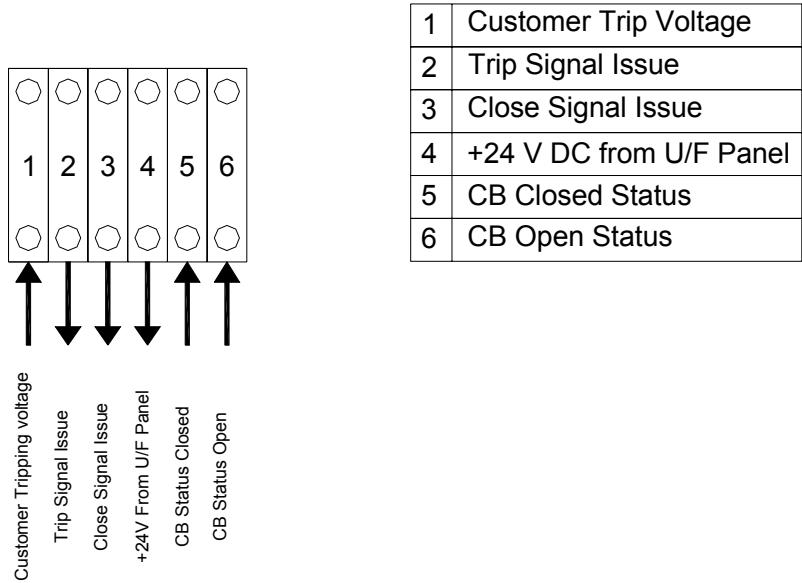
These status indications are usually a 24V signal which is supplied from the U/F Cabinet and returned through the customer switchgear aux. terminals.

There are two output signals

1. Trip signal Issue
2. Close (ready to reclose) Signal Issue

These trip and close signal voltages are dependant on the tripping voltage of the customer switchgear. Which is supplied to the U/F cabinet via the customer interface cable.

Typical Customer interface signals (Cable to be installed by Customer)



Typical Under Frequency Cabinet for standard installations

