RECONDITIONED ELECTROCARD METER

TECHNICAL DATA

- Single phase card pre-payment meter, available as either a single rate or dual rate meter

- The red LED mounted on the front panel will pulse at a rate of 1000 pulses per kWh.

- Current range: 20 to 100 Amp

- Frequency: 50Hz

- Rated voltage: 230V

- Temp range: -10°C to 45°C
  (limit of operation -20°C to 55°C)

- Dimensions: Height = 172mm : Width = 126mm : Depth = 90mm

1 - PRE PAYMENT TOKEN CARDS

When a valid prepayment card is inserted its total monetary value is credited to the meter and its acceptance is indicated by the message 'TOKEN VALUE £YY' being displayed for 5 seconds. On removal the card is erased and visibly marked to indicate it has been used. Cards are available in values of £1.00, £5.00 and £10.00 and in quantities of 100, 250, 500 or 1000+.

The message 'CARD ERROR' will be displayed if the card was inserted too quickly/slowly. If this message is displayed then on removal the card is not erased and may be used again at a later date. This message will also be displayed if the card inserted is invalid (ie the code on the card does not match the code in the meter – see following paragraph)

The meters are encoded with a security code as are the electricity cards and they must match, if they don't the cards won't work in the meter and 'CARD ERROR' will be displayed (see previous paragraph). Electricity cards for our meters are only available from us and for reasons of security, will only be supplied to the Registered Owner of the Card Meter(s). The Registration process requires the provision of suitable documentation confirming the owner or responsible person of the premises in which the meter(s) is/are installed, typically we ask for a copy of the most recent electricity bill.

Storage of the cards is important. Due to the information being held on a magnetic strip it is essential that the cards do not come into contact with any magnetic source, for example a mobile phone, speakers or microwave oven.

2 - PROGRAMMING THE METER

Settings on the meter (for example the pence per unit) can be altered with a programming card called a "METERMAN" card. These are multi-use cards and can be used in multiple meters as long as the meter and "METERMAN" card are encoded to the same code. Again, for reasons of security, "METERMAN" cards are only available to the Registered Owner of the meter(s).

3 - FIXED CHARGE COLLECTION

The meter has a Standing Charge and a Debt collection facility, called a fixed charge. The standing charge and debt repayment are both programmed into the meter as weekly values, which are divided internally by 100 and used to reduce the remaining credit (or increase the debt) every 100th of a week (1.68 hours). The debt collection operates identically to the standing charge except it is also subtracted from a pre-set debt outstanding. When the debt outstanding becomes zero, the debt collection is stopped.

4 - EMERGENCY CREDIT

This is a pre-set emergency credit reserve (factory set at £1.00, but this can be altered if desired with a METERMAN CARD – see number 2) that can be selected by pressing the button marked 'EMERGENCY CREDIT' when the pre-paid credit has fallen below a given level or the meter has gone into debt. An audible warning will be given at the point that the emergency credit can be invoked. The warning will consist of a 30 second buzz followed by ten 30 second interval buzzes. The warning can be stopped by invoking emergency credit or by inserting a valid token. The display will change to CRED £XXX.XXE to indicate the amount of emergency credit left to the consumer. The meter will show prepaid credit again once sufficient token cards are inserted. Once the emergency credit has fallen to zero the supply will be disconnected.

When the meter is in emergency credit and a token card is inserted, the emergency credit will be re-credited first and any balance will be put on the pre paid credit. If the token card is insufficient to give a pre paid credit above the emergency credit availability point, the meter will remain in the emergency credit zone.

5 - DISPLAY INFORMATION

When the meter is operating normally, pressing the 'DISPLAY' button will allow various parameters to be displayed. If during the cycle the 'DISPLAY' button is not pressed within 30 seconds the meter will revert to its normal operation.

DISPLAY	REMARKS
DISPLAY*TEST	Test all character positions on the display
KWH TOTAL	Total kWh
KWH R1	KWh for rate 1
RATE 1 XXX.XX	The tariff for rate 1 is displayed
DEBT.WK £XXX.XX	Debt collection per week
STCH/WK £XXX.XX	Meter rental charge per week
TIME HH/MM	Current time
T.CREDIT £XXXXX	Total value of credit that has been inserted
T.CARDS XXXXX	Total number of cards inserted
E.CRED £XXX.XX	Emergency credit
E.AVAIL £XXX.XX	If the meter's pre-paid credit is above this point then emergency credit is not selectable