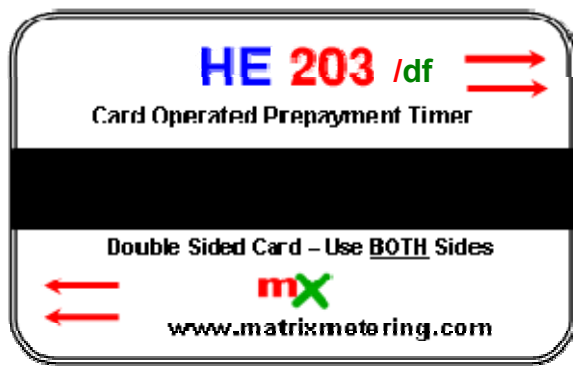


HE 203/df

Card Operated Prepayment Dual Fuel Meter

(Used with 3 Phase – Electricity)

Installation Instructions



230 Volts 100amps 50 Htz
Conforms to European Environmental Legislation



www.matrixmetering.com

Electric Settings

Meter gives 10 pulses per kWh – Channel 1

Meters gives 10 pulses per kVarh – Channel 2

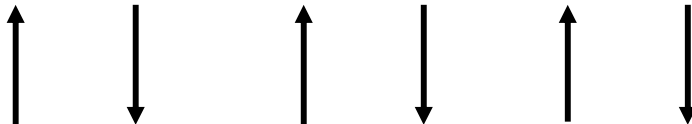
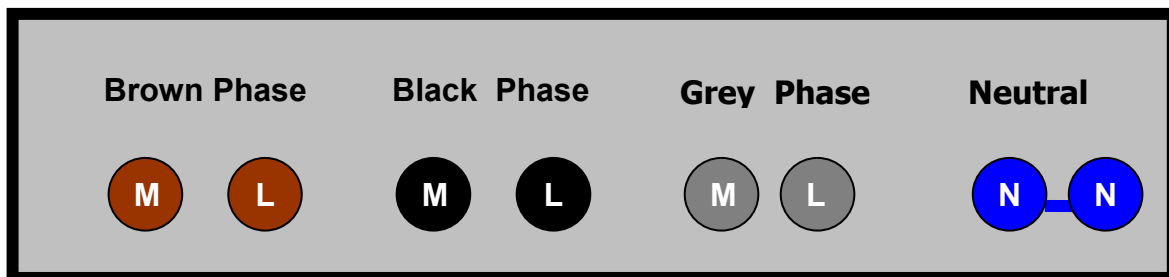
– The cost is shown on your Electricity Invoice

Matrix Metering Ltd, can accept no liability for the settings / charges made

**Wiring Diagram(s)
3 Phase – Electricity Meter**

Pulse Terminals to HE203

17 & 18 – kWh's 20 & 21 – kVarh Both pulsed outputs require to be wired to the HE203df



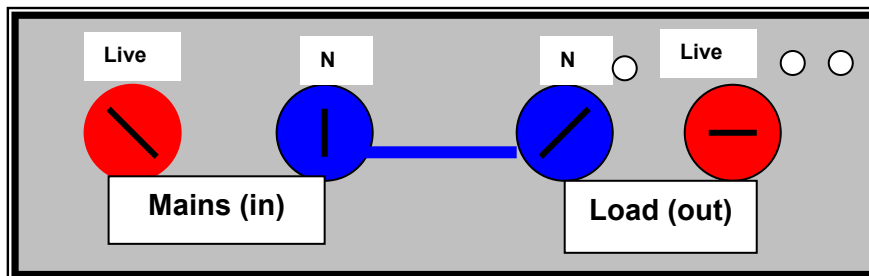
M = Mains
L = Load
Neutral is a common connection

**HE203/df
Card Reader**

Pulse 1- kWh (17)

Common (18 & 21)

Pulse 2 – kVarh (20)



Mains Feed 230v from fused supply

Load – To Contactor Coil (Not Supplied)



Programming HE 203

The product is designed to offer the operator and customer maximum functionality benefits, to ensure optimum operation, please adhere to the programming methodically.

Default Display Mode

When a live electrical connection is made, but the unit is not programmed the display will always show the default mode of :- **Card Value**

To program or alter settings use the two buttons on the front panel



Grey (Left) Button Increments	Blue (Right) Button Scrolls Program
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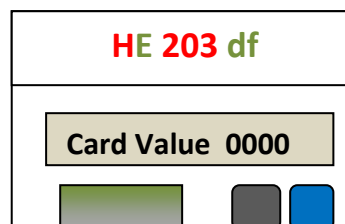
Screen No 1 - Card Value

The value of each side of the card to a maximum of 9999 units.

EG – Each unit has a 1p value

A £10 card should be set at 500 units per card side (two sided card)

Press **Grey** to increment
Blue to 'Scroll' Across



Moves on to next screen automatically

Screen No 2 - Buzzer - Warning Value

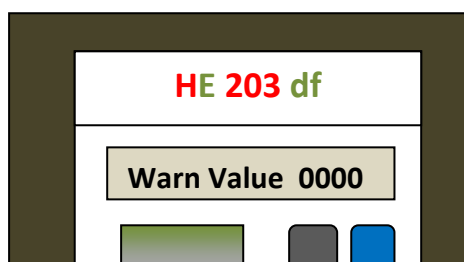
Audible – Buzzer warning

Buzzer sounds at pre set threshold

If not required program in 0000

Press **Grey** to increment

Blue to 'Scroll' Across



Moves on to next screen automatically

Screen No 3 - Pulse 1 / Multiplier

No of units channel 1 or 1st utility

Gas 10 pulses – Electric 1000 Pulses

Press **Grey** to increment

Blue to 'Scroll' Across

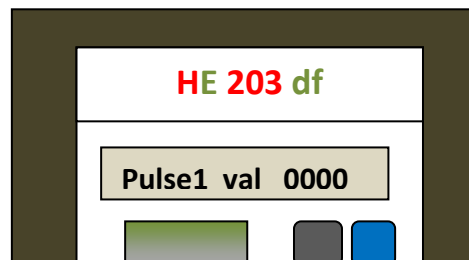


Moves on to next screen automatically

Screen No 4 Pulse 1 - Value

The value of each pulse

The monetary value cost of each utility unit – (see your utility Invoice)
Cost of a kWh - Electric

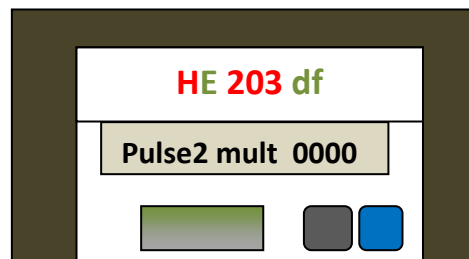
**Screen No 5 - Pulse 2/ Multiplier**

The same as screen 3 but for the second utility

Press Grey to increment

Blue to 'Scroll' Across

Moves on to next screen automatically

**Screen No 6 – Pulse 2 – Value**

Same as screen 4 but the second utility cost

Screen No 7 - Emergency Credit**Safety Credit Allowance**

Allows credit to be received in the event of a consumer running out of cards at an inconvenient time etc.

The Emergency credit value given – is reimbursed when the next card is installed. In the event of this facility not required program in 0000

Press Grey to increment

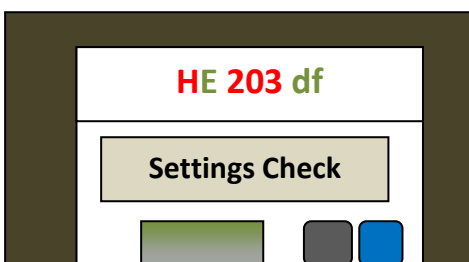
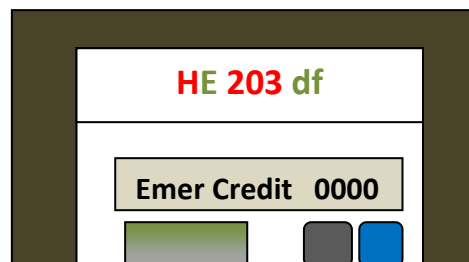
Blue to 'Scroll' Across

Moves on to next screen automatically

Screen No 8 - Settings Check

At this point the HE203/df automatically scrolls through the settings inserted.

ITS VERY IMPORTANT TO DOUBLE CHECK THESE SETTINGS

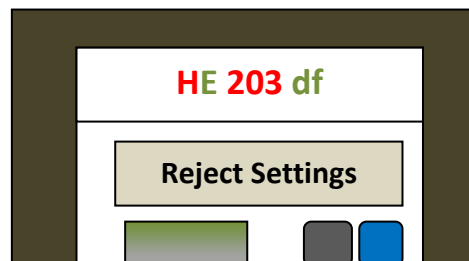
**Screen No 9 - Reject Settings**

After Screen 5 – Settings Check

The program automatically moves into

Reject Settings

IF YOU ARE UNSURE THAT THE SETTINGS ARE ANY THING BUT 101% CORRECT – PRESS REJECT AND RE INSERT YOUR SETTINGS



IMPORTANT

Screen No 10 - Accept Settings

ONLY IF YOU ARE SURE MOVE INTO THE NEXT SCREEN –

By Pressing GREY THEN BLUE



Screen No 11 – Hold to Save

Press the Blue Button

(Please note at this stage the settings are locked in)
Hold for 10 secs – a continuous audible alarm will sound .



To Operated

Default Display (zero credit)

Insert Card



HE 203 Cards are bi encoded – each end provides a credit value as per Screen 2 (Time Inserted) . **The card must be inserted stripe upwards**

On insertion the display indicates a 'Thank You' message
And the card is crimped to indicate 'used card' with 3 small indentations

The HE203 is now operational

And the amount of credit available is displayed.

The red led 'flashes' indicating time being decremented



Emergency Credit Facility

At zero credit – press **BOTH** buttons this moves the program into the emergency credit facility (hold down for 10 secs) The emergency credit is decremented from the next card inserted.



Audit Facility

Press the grey button and the display indicates the number of card passes that have taken place



Safety Reset Function

In the event of electrical cut to the power supply (Whilst there is remaining credit on the HE203)

The HE203 opens all contactors
And then displays Press to Re Start
Care should be taken to ensure that no utilities are in Open Circuit/Flow before re switching back on

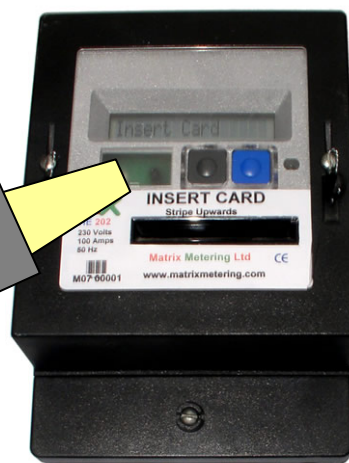
Either button Grey or Blue is pressed to return open contactors and valves



Need to alter / change settings – Over ride Facility !!! - After passing 'Screen 10' the software locks in the settings, these can only be altered with a Zapper Reset Tool - Purchased directly from Matrix Metering Ltd Tel 01524 841909



Zapper Reset Tool



Matrix Metering Ltd

An Accredited Low Carbon Company

Electricity Meter Manufacturers

Whitegate, White Lund Trading Estate Lancaster,
Lancashire, England. LA3 3BT

Tel 01524 841909 Fax 01524 847009

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