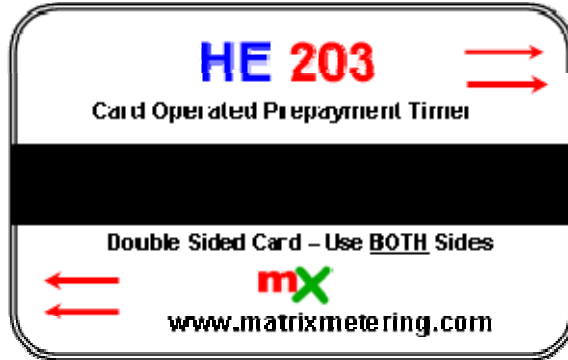


HE 203 Card Operated Prepayment Meter



230 Volts 100amps 50 Htz
Conforms to European Environmental Legislation



Matrix Metering Ltd
Utility Meter Manufacturers

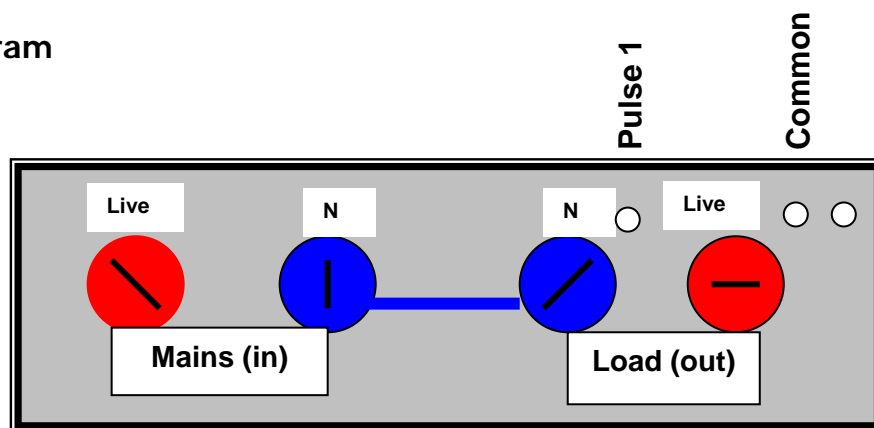
Whitegate, White Lund Trading Estate Lancaster, Lancashire, England. LA3 3BT
Tel 01524 841909 Fax 01524 847009
e mail sales@matrixmetering.com

Installation Instructions



Wiring & Operational Instructions

Wiring Diagram



Single Fuel Use - Pulse wires Pulse 1 & Common
 Double Fuel Use – Pulse wires as above + Pulse 2 & Common

The internal contactor is located between the input and output live terminals

Wiring electric meter – the circuit must route through the HE203

Wiring Flow Meters (Gas – Water – Oil) the output terminals are wired directly to the solenoid valve located in the pipe work

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
---	---

Screen No 1 - Card Value

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

Eg 50 units @ 10p each = £5 per side
X 2 = £10 per 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 00000

Press Grey to increment
Blue to 'Scroll' Across

Moves on to next screen automatically



Screen No 3 - Pulse 1/Unit - Channel 1

No of pulses per utility value
(e.g 10 pulses = kWh or 1 pulse = 1litre)

Press Grey to increment
Blue to 'Scroll' Across

Moves on to next screen automatically



Screen No 4 - Pulse 2/Unit - Channel 2 (When programming for single channel use Insert 00000 here)

No of pulses per utility value
(e.g 10 pulses = kWh or 1 pulse = 1litre)

Press Grey to increment
Blue to 'Scroll' Across

Moves on to next screen automatically



Screen No 5 - 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 5 - Settings Check

At this point the HE203 automatically
Scrolls through the settings inserted.

**ITS VERY IMPORTANT TO DOUBLE CHECK
THESE SETTINGS**



IMPORTANT

Screen No 6 - 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**



Screen No 7 - Accept Settings

**ONLY IF YOU ARE SURE MOVE INTO THE
NEXT SCREEN –**

By Pressing **GREY THEN **BLUE****



Screen No 8 – 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

At zero credit the HE203 closes an internal contactor (between the live terminals)
The contactor is rated at 100amps – 230 volts – 50 htz

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 closes solenoid valves
And then displays Press To Restart
Care should be taken to ensure that no utilities are in
Open Circuit/Flow before re switching back on

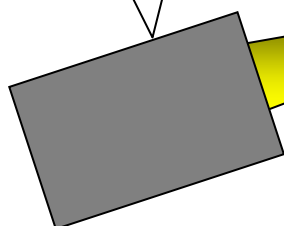
Either button Grey or Blue is pressed
to return open contactors and valves



Need to alter / change settings

After passing 'Screen 5' 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



Zapper Reset Tool

Allows access into the HE203 facilitating the following functions .

Override Facility – Overriding the need to insert cards – Display shows Override Press grey button – Override switches off

Clear Credit - Clears the credit on the HE203

Clear Audit – Clears the Audit Facility Counters

Alter Settings – Allows the settings of the HE203 to be altered

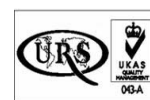
Matrix Metering Ltd

Utility Meter Manufacturers

Whitegate, White Lund Trading Estate Lancaster,
Lancashire, England. LA3 3BT
Tel 01524 841909 Fax 01524 847009
e mail sales@matrixmetering.com



www.matrixmetering.com



Certificate No. 2030