

## HE203e METER PREPAYMENT CARD METER



### PHYSICAL DATA

Heavy Duty Nylon Case with Perspex front viewing panel.  
Size: 124mm (W) \* 170mm (H) \* 95mm (D)  
Weight: 1.1Kg

### CARD SETTING RANGES

(Variable) 1 to 1000 units per card side  
Credits - Pulse(s)  
Buzzer Warning - Emergency Credit

### CARD TYPE

Magnetic striped card, bi-encoded both sides  
Number of uses : 2  
Card is clipped to show use once removed from device  
Size: 83.6mm (W) \* 52.9mm (H) Credit card size

### MODULE

100amps - Ac1 230 Volts (110 volts version available) 50/60Hz  
Module Contractor - Bi-stable electronic contactor  
Switching Current 4.5w over 20 ms  
Switching life - 100 000 switches (min)

### TERMINAL BLOCK

Nickel plated brass terminals, are fitted for main terminals  
The terminal cover is of a tamperproof construction & design,  
with a security lip fitting into the main meter case.  
Star constructed fixing for sealing with a 6.5mm screw head  
fitting conforming to BS5685 PT-1.

### CONTACTOR

Using Electronic Contactor 100amps  
Both versions are latching contactors (Bi-stable)  
Electronic Contactor has Very Low Current Consumption  
4.5 watts per 20-millisecond latch = 90 joules per latch  
No heating of coils (usual in standard product - Mono Stable)

### LCD DISPLAY

16 Character Display includes spaces  
Visual Diameter 65mm wide \* 13mm high  
Hitachi Display Driver 5\*7 dpc  
Character size (H\*W): 8.5mm \* 4.5mm  
Characters available = 92

### INPUT PULSE CABLING

Length of cable. 200 meters in perfect conditions (max)  
ie. not running near to other power cables.  
Recommended cabling type - twisted pair.  
Unshielded. ie. High Conductivity Speaker Cable  
<http://www.batt.co.uk/products/view/597/single-pair-unshielded-cable,-8471,-8205>  
It is strongly recommended that the cable doesn't run next to  
power cables. Cabling test with the above cable over 100m -  
voltage drop 0.1 volts (27.8 volts out - 27.7 volts)

### INFLUENCE OF SUPPLY VOLTAGE

The He203e module complies with IEC 1036 section 4.4.2  
Operation over the voltage range complies with IEC1036  
section 4.4.2.1 with permissible error given in IEC1036 table 14  
For voltage dips & short interruptions, the module complies with  
IEC 1036 section 4.4.2.2 and tested according to IEC 1036  
section 5.4.2.1. Power burden less than 2VA

### DATA RETENTION/MEMORY

Should loss of power occur, programmed data will be retained  
in memory for 10 years, 200 cards of credit can be stored into  
memory at any one time.

### MEMORY ACCESS

via Zapper Reset Tool

### TEMPERATURE RANGE

Operating Range - 10°C to 45°C  
Limit range of operation - 20°C to 55°C  
Storage range -25°C to 70°C  
This complies with IEC 1036 4.3.1

### STANDARDS

Full compliance meeting generic EMC standards EN50091-2 and immunity standard  
EN50082-2 for industrial environments.  
Safety Standard complies with En61010 installation category 11 pollution degree 2  
Compliance with both European RoHS and WEE Directives