



Matrix Metering Ltd

Utility Meter Manufacturers

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HE 202 – Card Operated Prepayment Timer

Physical Data

Heavy Duty Nylon Case , with Perspex front viewing panel
Case Size - 124 mm wide 170 mm high 95 mm deep
Case Weight – 1.1 kg

Timing Range

(Variable time) from 1 second to 99 days per card side inserted

Card Type

Magnetic Striped Card. bi encoded (encoded both sides)
No of uses 2
Card is clipped to show use, on removing from card reader.
Size 83.6mm wide x 52.9 high -- Credit Card Size



Timing Standard

Atomic Clock --Time accuracy calibration standard – USNO United States Navy Observatory Washington DC
www.usno.navy.mil



Module

100amps – AC1 230 volts (110 volts version available) 50/60hz
Module Contactor – Bi Stable Electronic Contactor –
Switching Current 4.5w over 20 ms
Switching life – 100,000 switches minimum

Terminal Block

Nickel plated brass terminals, are fitted for main terminals.
The terminal cover is of a tamperproof construction and design, with a security lip fitting into the main meter case, and star constructed fixing for sealing with a 6.5mm screw head fitting conforming to BS 5685 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 = 90m Joules per latch
No heating of coils (Usual in standard product – Mono Stable Contactors)

End Of Session Warning Facility

Programmable audible warning or option of a 230v - 6amp relay output

LCD Display

16 Character Display includes spaces

Technical Details





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Visual Diameter 65mm wide 13mm high
Hitachi Display Driver -- 5 x 7 dots per character
Character Size 8.5mm High 4.5 Wide
Characters available = 92 includes low and high case

Influence Of Supply Voltage

The HE 202 module complies with IEC 1036 section 4.4.2
Operation over the voltage range complies with IEC 1036 section 4.4.2.1 with permissible error as given in IEC 1036 table 14.
For voltage dips and 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 - 10c to 45c
Limit range of operation -20c to 55c
Storage range -25c to 70c
This complies with IEC 1036 4.3.1

EMC Standards

Full compliance meeting generic standard EN50091-2 and immunity standard EN50082-2 for industrial environments

Safety Standard

Complies with EN61010 installation category 11 Pollution degree 2



RoHS & WEE Directives

Compliance with both European directives



Technical Details



www.matrixmetering.com



Certificate No. 2030