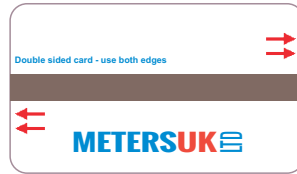


# HE202 METER

## CARD OPERATED PREPAYMENT TIMER

### KEY FEATURES

- Sports & Leisure Applications
- Simple to program
- High Quality LCD Display
- Retains Memory in the event of powerloss
- Uses Magnetic Stripe Card to credit
- Timing Range (variable) 1 second to 99 days
- Audit Facility
- Large Switching capacity up to 100 amps direct
- Override & End Of Session Warning Facilities
- Conforms to European Environmental Legislation
- Time – Calibrated Accuracy
- Reset Option



### Physical Data

Heavy Duty Nylon Case, with Perspex front viewing panel  
Case Size (WxHxD) - 124 x 170 x 95mm  
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)  
Inserted twice. Card is crimped to show that it has been used.  
Size: 83.6 x 52.9mm

### 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 tamper proof 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

### 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

### 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  
Visual Diameter 65mm wide x 13mm high  
Hitachi Display Driver - 5 x 7 dots per character  
Character Size 8.5mm High x 4.5mm 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

### 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

**FREQUENTLY ASKED QUESTIONS**



**Q: How does the HE 202 work**

A: A card is inserted, which gives the preset time, and the card is then removed and disposed of

**Q: Can I set the HE 202 to suit my application**

A: Yes the times are variable between 1 second & 99 days

**Q: Are there Audit Facilities**

A: Yes it is software options, by scrolling the grey button the total number of cards inserted is displayed

**Q: Is there an end of session buzzer warning**

A: Yes this can be set to give a audible warning prior to completion of the timed session eg:- 2 minutes before switch off. The length of the buzzer warning is programmable

**Q: Is there any other options than a Audible buzzer warning.**

A: Yes there is an option of a relay which can control lights or any similar device. The relay provides a 230 volt supply and 6 amps switching

**Q: If I put more than card in will it double the credit available?**

A: Yes example if you set the unit for 10 minutes and put two cards in cards it will give 20 minutes of credited time.

**Q: Do you have a Coin Operated Version available ?**

A :No, we no longer have a coin operated meter available.

**Q: What programming security is available?**

A: Each HE 202 locks in the software at the programming stage. The operator can purchase a Zapper Reset Tool which will allow access back into the software for re setting the programme and provide a override facility

**Q: Does the HE 202 have a count down display (time)**

A: Yes the unit has a LCD display, the time is displayed and counts down in seconds, showing the amount of session time remaining.

**Q: How do I program the HE 202**

A: Two buttons on the front panel of the HE 202, which are situated on the front panel of the unit.

**Q: What switching capacity has the HE 202**

A: A Large contactor is located in the unit and a full 100amps can be switched

**Q: What sort of material is the case made of ?**

A: A heavy quality, highly durable nylon, which conforms to EN50091-2

**Q: Are they expensive**

A: No the HE 202 have a LOW OWNERSHIP COST

**Q: How secure is the card purchasing system**

A: Security is very important, each HE 202 purchase is registered and we register the owner/building manager with our card bank. Only registered operators can purchase cards from our Card Bank

**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