

# HD18

Customer Interface Unit



# HD18



Accessories



## Customer Interface Unit

EDMI introduces a new generation of customer interface unit, the HD18, following the success of HD16 and HD14. This handheld unit is capable of the full STS prepayment functionality. Users are now able to have better ownership of their energy consumption remotely.



## Key Features



### STS Prepayment Compatibility

Full STS prepayment functionality provides the unit with global interoperability.



### Multiple Alarm Indicator

To render smooth customer usage, various alarm indicators are developed for low credit, reverse power, unbalance load and tampering of meter cover.



### Display Variance

There are up to 99 different meter parameter display on the interface unit.



### Auto Reconnect

Upon customer top-up, the power supply will be reconnected automatically.



## Specifications

### Communications

The HD18 can be fitted with one of the following communication options:

#### RS 232

Communication distance >10m (CAT5 cable)

#### Voltage & Power Supply

- Operating Voltage: 7V to 15V
- Operating Current: ≤45mA

#### Meter Type Compatibility

- Atlas: Mk7A/Mk7B/Mk7C/Mk10A/Mk10D/Mk10E

#### RS-485 (2-wire screw terminal)

Communication distance >100m (CAT5 cable)

#### Voltage & Power Supply

- Operating Voltage: 7V to 15V
- Operating Current: ≤45mA

#### Meter Type Compatibility

- Atlas: Mk7A/Mk7B/Mk7C/Mk10A/Mk10D/Mk10E

#### Radio Frequency

Open air communication distance >100m

Frequency 142MHz - 950MHz (configurable)

Transmit power: 17dBm (50mW)

#### Voltage & Power Supply

- Operating Voltage: 3.3V (2 AA battery battery)/5V(DC)
- Operating Current: <24 mA (Rx) <60mA (Tx)
- Standby Current <120 uA

#### Meter Type Compatibility

- Abacus: Mk32/Mk32H/Mk7M
- Atlas: Mk7B/Mk 7C/Mk10D/Mk10E

#### 2 wire

Communication distance >120m (24AWG twisted pair cable)

#### Voltage & Power Supply

- Operating Voltage: 18V
- Operating Current: ≤45mA

#### Meter Type Compatibility

- Abacus: Mk32/Mk32H

### PLC

DBPSK PLC module

Carrier frequency: 187.5kHz

Communication distance: 500m

#### Voltage and power supply

- AC power supply
  - Operating voltage: 85V to 265V
  - Operating power: ≤1W
  - Standby power: <0.3W
- Plug option:
  - British 3 pin plug
  - Round 3 pin plug

#### Meter type compatibility

- Abacus: Mk32/Mk32H

### LCD Display

8 Character of seven-segment display  
Option for backlight

### Keypad

Silicon keypad

### Environmental

Specified operating range: -10°C to +45°C  
Operating limit range: -25°C to +55°C  
Storage range limit: -25°C to +70°C  
Relative humidity: Up to 95% non-condensing  
Ingress protection: IP51

### LCD Display



- |   |                             |    |                             |
|---|-----------------------------|----|-----------------------------|
| 1 | Signal Strength             | 7  | Meter Lid Cover Tamper      |
| 2 | Page Indicator              | 8  | Meter Terminal Cover Tamper |
| 3 | Meter Relay Status          | 9  | Overload                    |
| 4 | CIU Battery Indicator       | 10 | Unbalanced Load             |
| 5 | Meter Program Key Indicator | 11 | Reverse Power               |
| 6 | Magnetic Detection          | 12 | CIU Connection Status       |



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