



# CHAMELEON<sup>®</sup>

## TECHNOLOGY

### IHD3-PPMID Product Overview

Also available as an IHD only and with integrated CAD functionality

IHD3 supports the display of gas and electricity usage and costs for credit and pre-payment customers. IHD3 is fully compliant with all SMETS2 requirements for an In-Home Display (IHD) and for a Pre-Payment Meter Interface Device (PPMID).

The PPMID functionality provides a range of extra features for pre-payment customers. These include the ability to add credit by entering a top-up code and enable emergency credit.



IHD3 uses a high contrast negative mode display with colour printing to provide a contemporary and visually attractive screen. The product has an LCD display with seven touch screen front-facing buttons. The touch technology used for the buttons makes the menu of IHD3 simple to navigate and provides a highly responsive user interface. A built-in battery allows users to take the product around their home and monitor their energy usage more easily.

IHD3 is also available with integrated Consumer Access Device (CAD) functionality. The IHD3-CAD-PPMID sends the user's real time smart meter data securely to Chameleon's cloud platform via the Chameleon CAD API. The real time data can then be linked to other IoT and connected home applications to unlock additional benefits for the consumer. With a CAD, customers can see their real time energy data on mobile devices and obtain additional insights into their energy use.

### Key features

- Zigbee SE SMHAN interface
- 4.3" high contrast colour display
- 7 front-facing capacitive touch screen buttons
- Clear screen design with logical controls
- Automatically tailored menu options for credit and pre-payment customers
- Budget setting
- User tutorial
- Plug top power supply and built-in rechargeable battery
- Ambient lights highlight instant use
- Multiple languages
- Engineering menu to aid triage
- Available with integrated CAD functionality



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### Product attributes

<b>IHD3 range</b>	
Product dimensions	H=108mm x W=80.5mm x D=47mm
Weight including PSU	160 grams
Zigbee radio	2.4GHz IEEE802.15.4
Display	4.3" negative mode fixed-segment LCD with a 9 x 162 dot matrix messages area 2 LEDs (red, amber, green) indicate instant energy use
User input	7 capacitive touch buttons
Supported languages	English, Welsh
Power supply	230V plug top PSU providing 5V supply
Battery	Built-in 200mAh rechargeable battery
Operating temperature range	0°C - 50°C
<b>IHD3-PPMID</b>	
SMHAN interface	Zigbee Smart Energy 1.2b
Power consumption	<0.5W including plug top PSU
<b>IHD3-CAD-PPMID</b>	
SMHAN interface	Zigbee Smart Energy 1.4
CAD radio	2.4GHz IEEE802.11 b/g/n
CAD payload	MQTT messages with a TLS1.2 encrypted, JSON encoded, payload
Network joining options	WPS push button, WPS pin, wireless network scanning
Ambient temperature	Reporting and display - optional
Power consumption	<.0.6W including plug top PSU



To find out more, please contact  
Chameleon Technology (UK) Ltd  
Tel: +44 (0)1423 815 911  
E-mail: [info@chameleontechnology.co.uk](mailto:info@chameleontechnology.co.uk)  
Website: [www.chameleontechnology.co.uk](http://www.chameleontechnology.co.uk)

Address:  
Gardner House,  
Hornbeam Park Avenue,  
Harrogate, HG2 8NA