



trio II accessible

Accessible smart in-home energy display



Product overview

As the UK smart meter programme rolls out, it is important that everyone can take advantage of the benefits smart meters and in-home displays can bring in an inclusive way.

We have worked with RNIB, Eneyg UK and conducted our own research to design an Accessible in-home-display (AIHD), which fulfils this need.

Technical specification

Product features :

- Speech: English (UK) - Male
- A single or dual fuel electricity and gas consumption monitoring
- Zigbee® Smart Energy (SE) 1.2b certified
- Zigbee® Smart Energy (SE) 1.4 capable
- Compliant with SMETS 1, SMETS 2, and SMDA standards for in-home displays
- Credit and pre-payment functionality
- Compliant with SMETS 2 enhanced pre-payment (PPMID)
- Auto switches between SMETS 1 and SMETS 2
- Optional WiFi connectivity for geo or 3rd party energy apps
- Supports CAD functionality (via optional WiFi)
- OTA upgradable firmware and UI (SMETS 1)
- OTA upgradable firmware and UI via optional WiFi (SMETS 1 or SMETS 2)
- Anti-tamper seals

- Display: Full colour 3.45 inch TFT display
- Power supply: 230 Vac, 50 Hz UK, Euro, North America and Australia PSU pin options
- Consumption: < 0.6 W
- Radio: 2.4 GHz and optional 868 MHz Zigbee® SE
- Batteries: Internal rechargeable battery (standard)

Accessibility features :

- Text-to-speech of screens and navigation with user selectable volume
- 6 large printed buttons with positive feedback
- 3 coloured LEDs for electricity usage indication
- Middle LED push button to replay speech
- Colour TFT screen for rich and engaging content
- Large crisp typeface
- High contrast colour scheme optimised for visual impairment and colour-blindness
- RNIB approved design



Product features and benefits

Designed around consumers with additional needs

The Trio II Accessible combines several innovative features for an IHD, including text-to-speech for both the screens and navigation, six large tactile buttons with positive feedback, and three separate LEDs to clearly indicate current electricity consumption.

Simple and intuitive user interface

Customers with additional needs are no different to any others, and want to understand how much energy they are using now, or how much it is costing them. In addition to the Trio II Accessible hardware features, we have refined the user experience and user interface, through high-contrast colour schemes, and large crisp typeface.

Built for today's smart meters and in-field upgradable

The Trio II Accessible is built to comply with the latest SMETS 1 and SMETS 2 standards for both in-home displays, and pre-payment (PPMID); allowing utility partners to deploy with multiple meter manufactures. We automatically switch between SMETS 1 and SMETS 2. The Trio II can be updated Over-The-Air (OTA), via our optional WiFi module, allowing for refinements in the user experience and user interface.

Dual-band Zigbee® support

We recognise that smart meters are not always in the most accessible places, which can lead to Home Area Network (HAN) connectivity issues. That is why we designed the Trio II Accessible to be capable to support both Zigbee 2.4GHz and 868MHz.

Connected devices and data services

With our optional WiFi module, utility partners are able to add value to their energy apps, or use our intuitive Tempo energy app. Utility partners can select individual or combined solutions utilising processed data via our APIs, or raw data (live, historic or batch data) via our AWS SQS queue system.