

sensor 2 cloud connected energy services



product overview

The Tempo Sensor-to-Cloud (S2C) solution provides consumers with full visibility of real-time energy consumption information through an intuitive app, which is easy to use and understand. We understand that connecting to meters can be challenging, and we have designed a number of versions of the **geo's** Meter Transmitter, allowing partner solutions for both pre-smart and smart meters.

technical specification

tempo hub:

- Caseworks colour: Dual colour white/black
- Branding: **geo** or customer log (optional)
- Network interface: 10/100Base-T (IEEE 802.3u) using CAT5e cable
- Firmware upgrade: Delivered from **geo's** tempo energy data services platform
- Power supply: 230 Vac, 50 Hz UK, Euro, North America and Australia PSU pin options
- Power Consumption: 250mA
- OTA upgradable firmware
- Power supply: 230 Vac, 50 Hz UK, Euro, North America and Australia PSU pin options

CT/LED transmitter :

- CT for single-phase or 3CT for 3-phase supplies

- Power Supply: 3 x AA batteries (up to 2-year life)
- Radio: **geo** Legato protocol at 868 MHz
- Refresh Rate: 2.8 seconds
- LED Pulse Rate: 50 - 10,000 imp/kWh

P1 transmitter:

- DSRM standards 4.2.1 and 5.0.2
- Radio: **geo** Legato protocol at 868 MHz
- Supports encrypted/unencrypted P1 ports via RJ12 connector
- Meter types supported include electricity and gas, including solar PV (export).
- Options to support other meter types such as thermal, water or slave e-meter
- Power supply from the meter
- 868 MHz radio using **geo's** Legato protocol
- Refresh Rate: DSRM standard dependant

product features and benefits

simple and intuitive app and user experience

We have developed our app, using our extensive energy monitor display experience, to build simple and intuitive application, allowing customers to take our application and use it directly within their business; additionally, we are able to look at white labelling and branding options, including language translation.

capturing real-time and historical energy consumption data

Our solutions helps customers to understand how much energy they are using now, and how much it is costing them, including the ability to set budgets or track energy spend; with full electricity and gas consumption over the last year. Our solution is available for any internet connected device.

connects to a wide array of electricity and gas meters using a wireless meter transmitter

We understand that connecting to meters can be challenging, and we have designed three versions of the **geo's** Meter Transmitter, a CT, LED (pre-smart meter) and P1 (smart meter) version; the CT/LED version supports electricity meters, and the P1 (DSMR) version supports both electricity and gas meters. All of our transmitters use **geo's** 868 MHz proprietary protocol, offering greater range and reliability.

connected devices and data services

Our Tempo S2C solution allows utility partners to add value to their energy apps, or use our intuitive Tempo energy app, or have a branded version of the 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.

branding possibilities

We understand that branding is important for our utility partners, and there are number of customisation options available for our application and hubs, such as case-work colours, and logos.

supports import and export meters

The Tempo S2C solution is capable of supporting import or consumption modes; and in the near-future (2018) Tempo S2C will also support both import and export meters.