

Insight In-Home Display

Give customers insight into energy consumption. Help customers understand, manage and control their household energy consumption with the Tendril Insight™ in-home display.

The Tendril Insight is an in-home display that communicates with networked smart devices including thermostats, electricity meters, and outlets. With the Tendril Insight, consumers can track kilowatts and cost-per-hour of their energy as they use it for up to the minute bill tracking. Customers enjoy more choices around energy consumption and can also actively participate in Energy Efficiency, Load Control and Demand Response programs. With the Tendril Insight, energy service providers can help customers save money and reduce their environmental impact, while reducing customer service incidents and improving overall load balancing and Demand Response capabilities. For an enhanced homeowner experience the Tendril Insight can be used in conjunction with the Tendril Energize™ application suite.

Provide in-home energy usage at a glance. The Tendril Insight displays a variety of screens that show consumers their monthly consumption and the associated cost, month-to-date estimated bill, utility electricity pricing and Load Control event messages. Users can also set personal alerts to manage energy usage more efficiently, and control their energy costs. Concurrently, providers can send messages about price changes as well as rebate opportunities for participation in Demand Response events, such as switching thermostats and appliances to more environmentally-friendly settings during peak demand.

Manage change with a flexible standards-based approach. The Tendril Insight is ZigBee® Smart Energy 1.0 certified and an integral part of an effective Home Area Network (HAN). A ZigBee-based HAN gives consumers the freedom to choose from a variety of interoperable energy management solutions and to take advantage of automation and real-time information for better energy management.

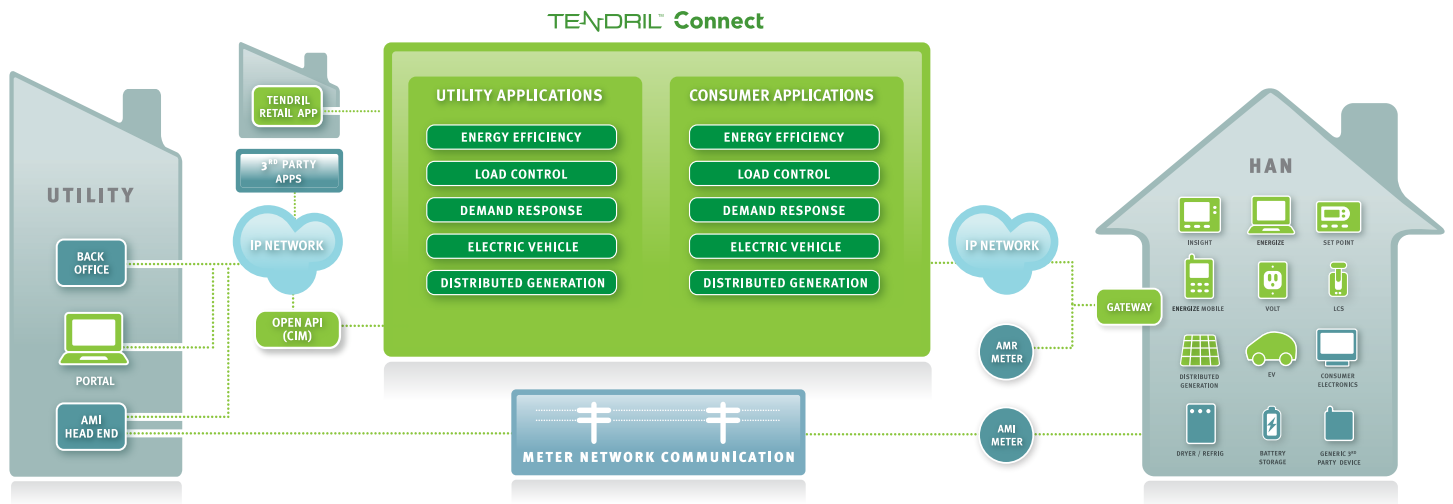
Overview

- Displays current household energy use in both kilowatts and dollars-per-hour
- Displays current day accumulated energy usage and compares cost with previous day's cost
- Offers up-to-date monthly billing information and an estimated end of month bill
- Displays price of electricity in real time
- Allows consumers to be alerted with a variety of audio and visual alerts when their energy use or cost exceeds specified targets
- Allows text messaging and notification of Load Control events from energy service provider to consumers
- Provides wireless software updates of the latest features and functions

Key Features

- Consumer-friendly package
- Durable plastic housing
- Wall powered via 120VAC power adapter, with 6' cord
- Wall mountable or use the retractable stand for placing at upright viewing angle (e.g., on counter) or laying flat
- Rubber pads at base to provide stability and avoid slippage on hard surfaces
- Colored LED lights indicate various conditions for user and customer support
- Over-the-Air (OTA) enabled firmware update support
- Colored backlight for alerts
- Custom branding available
- Embedded Tendril Profile provides extended Smart Energy functionality and remote diagnostics





Tendril Connect™ is the proven energy management platform that enables unprecedented insight, choice, and control. This open standards-based, end-to-end technology enables energy service providers and their customers the ability to deploy and take advantage of tomorrow's Smart Energy solutions, today. Energy service providers and their consumers are empowered with data and analytics about energy consumption, helping to drive down costs, lower environmental impact and realize operational efficiencies.

Integrate now and in the future. The Tendril Insight is open standards-based, enabling it to integrate with today's AMI and AMR meters. Over-the-air updates enable enhancements to deployed device firmware and software.

This flexible, standards-based approach also enables Tendril solutions to comply with and adapt to changing regulatory, consumer and technological needs, as well as future Smart Energy certified hardware, such as WiFi™ and HomePlug® products. With ZigBee-certified Tendril solutions, providers can implement energy management and efficiency programs more easily and securely, and consumers can reduce energy costs and their impact on the environment.

The big advantage. Now energy service providers can meet consumer demand and prepare for regulatory mandates by offering customers a truly integrated experience. The Tendril Connect™ platform, along with Tendril in-home products, makes it easy. No matter the network architecture or metering infrastructure, Tendril offers a solution that gives energy service providers the security and control they need, while delivering the interaction customers expect.

About Tendril. Tendril provides the cloud platform for the energy industry, delivering end-to-end consumer engagement products, applications and services powered by Tendril Connect™—an open, secure and scalable platform that takes the complexity out of the Energy Internet and creates a dialogue between energy service providers and their customers. Delivering consumer engagement software, in-home products and applications as well as easy to integrate utility solutions such as Demand Response and Energy Efficiency, Tendril offers unparalleled insight into energy decisions, making the Energy Marketplace a reality.

Insight Technical Specifications

- 128 x 240 pixel monochrome display with 9.2 x 5.3 centimeter viewing area
- Backlight with ambient light sensing and Red-Green-Blue color options
- Large fonts with home screen viewable from 8+ feet
- ZigBee®/802.15.4 Radio with Tendril additional functionality
- 2.400 - 2.483 GHz, unlicensed ISM band
- Atmel AVR Control Processor operating at 3.6864 MHz with 256KB Flash and 8KB RAM
- 1MB external serial flash EEPROM
- 100mW power-amp output
- -94dBm receiver sensitivity
- Internal power consumption 0.9W to 2.25W (depending on operational state)
- Elliptic Curve Cryptography (ECC) enabled, or Pre-configured Key enabled, for AMI and AMR configurations
- Over-the-air (OTA) embedded software updates

Requirements

- Tendril Connect platform
- AMI Smart Meter
- AMR Meter

Standards

- ZigBee SE certified
- FCC certified
- UL certified

Availability

The Tendril Insight is available today