

Set Point

Thermostat

Enable Energy Efficiency where it counts. Help consumers better understand, manage and control their energy consumption with the Tendril Set Point™ thermostat.

The thermostat is one of the most important controls connected to a consumer's Home Area Network (HAN). In most cases the thermostat regulates 40% of the home's energy use. The Tendril Set Point is the greatest contributor to the Home Energy Management System (HEMS). The smart thermostat works in concert with a variety of communicating in-home devices, such as outlets, electricity meters, and the Tendril Energize™ application suite to provide a complete home energy management solution which helps consumers better manage their energy consumption and reduce costs.

Collaborate with customers to manage demand. With the Tendril Set Point, energy service providers can improve the customer experience while staying in control. For instance, the Tendril Set Point is user programmable with custom rules to adjust to heating and air conditioning as costs and network demands fluctuate. The Tendril Set Point can also indicate the current price and state of control, allowing consumers to monitor electricity consumption, respond to price changes and manage energy loads.

Energy service providers can also use the Tendril Set Point to collaborate with customers via text messages and alerts to help them make better energy consumption decisions. With the Tendril Set Point, customers can better manage home temperature settings throughout the day without sacrificing comfort.

Manage change with a flexible standards-based approach. The Tendril Set Point 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.

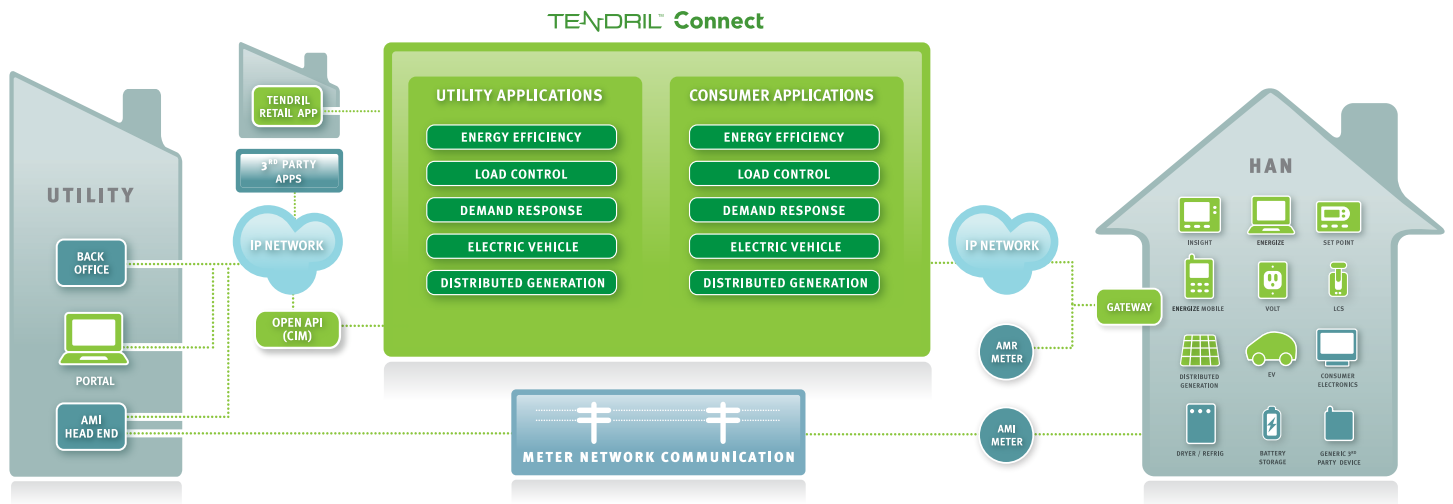
Overview

- Indicates Load Control events to help consumers monitor consumption
- Comes pre-programmed with specific "price rules" designed to work with Smart Energy Demand Response programs
- When coupled with Tendril Energize™, provides customizable programming to create different behavioral responses to pricing rules and information
- Offers secure and direct registration with energy service providers for Demand Response commands

Key Features

- 7-day digital, programmable
- Standard HVAC system controls (24VAC)
- Supports up to 3 heating stages, 2 cooling stages
- 4 programmable set points each day
- Temporary or permanent set point hold function
- Network commissioning through a user-accessible menu
- External controls to allow user override
- Text message area to allow for utility generated customer messages
- Indicators for current price and pending Demand Response events
- Colored LED lights indicate various conditions for user and customer support
- Offers remote programming capability (via Tendril Energize)
- Remote access via Tendril Energize to indicate current temperature and to store historical temperature patterns
- Over-the-Air (OTA) updatable firmware
- Custom branding available
- 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 Set Point is open, standards-based, and fully functional for placement in today's pre-AMI/AMR environments. Over-the-air updates enable enhancements to deployed device firmware and software, providing an easy path to integrate with future AMI and AMR meters deployments.

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.

Set Point Technical Specifications

- ZigBee®/802.15.4 Radio
- 2.400 - 2.483 GHz, unlicensed ISM band
- 100mW power-amp output
- -94dBm receiver sensitivity
- Internal power consumption: 0.5W to 0.75W
- Elliptic Curve Cryptography (ECC) enabled, or Pre-configured Key enabled, for AMI and AMR configurations

Requirements

- Tendril Connect™ platform
- AMI Smart Meter
- AMR Meter

Standards

- Designed for ZigBee
- FCC certified

Availability

The Tendril Set Point is available today