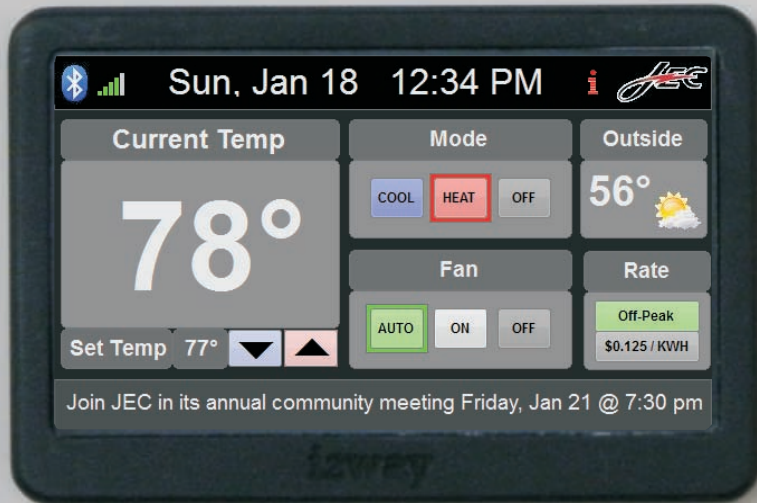




TDSG DE-2500 Wireless Energy Manager

PATENT PENDING



The DE-2500 is i2way's customer "control panel" for its AMR wireless energy meter. The DE-2500 Wireless Energy Manager was developed to allow a utility to control HVAC systems in an automated demand load management program. The unit also functions as a thermostat, a computerized energy manager, customer invoice and payment center, weather bulletin and information display device and prepaid billing control.

Using the Android 2.1 operating system, the device can execute and display third party-developed software applications. Supplied with a host of standard applications, the DE-2500 provides the customer with control over his energy choices and new abilities to reduce electricity consumption.

While each of the functions the DE-2500 provides can be achieved by assembling and interconnecting a number of third party hardware products, the i2way Wireless Energy Manager seamlessly integrates everything into

one compact, economical "Thermostat-like" device using modern "smart phone" technology and techniques. Applications and new features may be added at any time in the future, either purchased and downloaded by the customer, or upgraded by the utility as desired.

Up to sixteen devices may be supported by one DE-2000 TDSG meter, providing lots of capability for multi-zone installations. The unit controls multi-stage heating and cooling systems, whether electric, gas, fuel oil or combinations.

An optional electric vehicle charging outlet allows for separately metered, tariffed and timed vehicle charging. A plug-in Zigbee interface supports adopters of early home area networks.

The TDSG meter provides multi-channel wireless trunks on demand to the utility's database, allowing advanced features once thought to only be available with costly broadband service



The “home” screen displays the main basic functions normally associated with a thermostat.



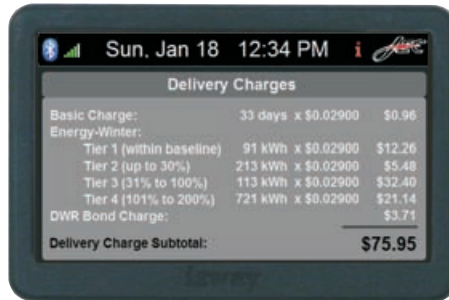
Sophisticated temperature memory controls allow heating and cooling to be preset at any time throughout the day or week.



A customer can view his invoice and make a payment by credit, debit card or direct bank withdrawal.



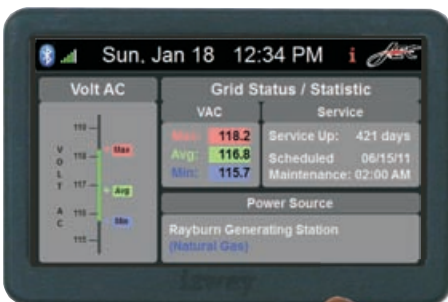
Historical energy usage can be displayed graphically in an almost endless number of variants.



Your customer invoice can be displayed at any time with current usage data.



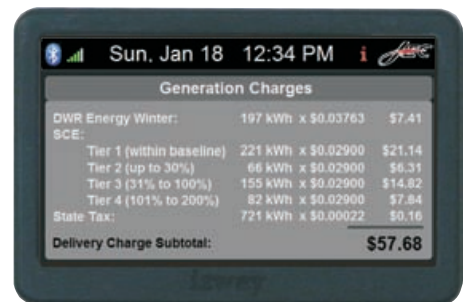
New “apps”, such as this customer-defined energy-source selection screen, may be downloaded by the customer.



Real time grid statistics available instantly.



Moving between menus is simple and intuitive.



The DE-2500 doesn't have a complex menu tree. The customer's finger is all that is needed to scroll through dozens of application screens as is common with 'smart phones'. After inactivity, the main 'home' screen is displayed, and eventually screen saved.

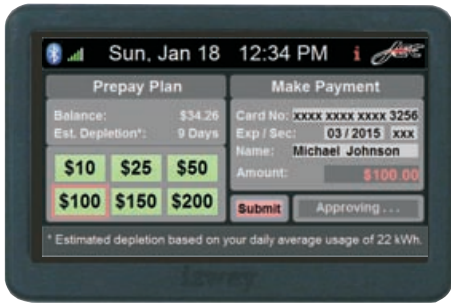
One DE-2500 may serve as a master to several remote DE-2500's. And the i2way web portal allows a customer to remotely monitor and control heating and cooling from across town or across the world.

The device may be powered by HVAC low voltage or by

an AC adapter. An internal lithium ion battery provides operation in the event of mains failure or service disconnect in a prepaid system, allowing payment to be made to restore service. When service is restored, the DE-2500 provides for customer input to verify that it is safe to re-energize the customer's service.

Using Bluetooth Low Energy, the DE-2500 communicates with its companion TDSG Electric Revenue Meter and other devices on a Home Area Network as far as 500 feet.

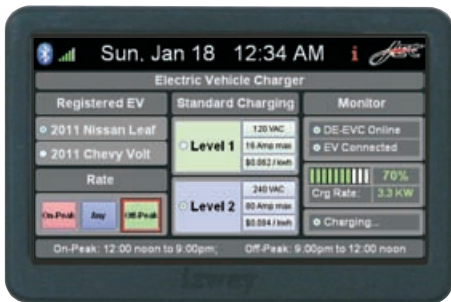
Installation is no different than any HVAC thermostat, so a home owner could do it himself.



Prepaid Power

With the DE-2000 meter’s integral remotely controlled 200 amp service disconnect switch, the DE-2500’s prepaid power application allows your customer to make instant payments from his residence. The customer can monitor his energy usage, account balance and payments.

Should service be interrupted, the customer can confirm restoral from his thermostat, or the DE-2000 meter, thus assuming responsibility for any formerly active appliances or other devices.



Electric Vehicle Charging

Electronic vehicle charging may be monitored, separately tariffed, scheduled, and remotely controlled by way of a EV application and the wirelessly connected DE-2555 metered charging outlet. Dedicated charging no longer requires separate meters and new wiring.

The customer can select from a spectrum of available electric vehicles, so the application understand its charging characteristics. Charging can be shifted to off peaks when lower rates are available. The customer can see at a glance the status of the charging process.



Remote Programming

The i2way web portal allows customers remote control of off-premises DE-2500 Thermostats via the Internet. Almost all functions of the unit are remotely programmable.

- Bluetooth LE 4.0
- 100 milliwatt TPO 2394-2507 MHZ
- 40 channels
- FHSS-GFSK Modulation
- 1 Mbps over the air rate
- 260 kbps deliverable rate
- -100 dBm receiver sensitivity
- -40 to +85 C operation.
- Android 2.3 Operating System
- Interface to HVAC 24 VAC low voltage control
- 1400 mAh Lithium Ion Battery
- Texas Instruments OMAP DSP + ARM Processor
- 4 GB memory
- 480 x 800 pixel AMOLED display
- Capacitive Touchscreen
- Ambient Light Sensor
- 256 AES Encryption
- Dallas Semiconductor precision temperature sensor
- Range to meter - 100 meters

i2way Corporation

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