

## Green Market Applications

# Custom Transformers and Electronic Assemblies to Green the Environment and your bottom line



**Standex Electronics is playing a leading role in the greening of America. From custom transformers and electronic assemblies used in power meters for the “smart grid” to reed switch based level sensors used to conserve water in household and commercial appliances – we’re using technology and innovative designs to conserve America’s natural resources.**

Naturally, this is good for the environment – but it can help “green” your bottom line, as companies use their energy and resource conservation approaches to carve out marketing and sales advantages in a crowded marketplace.

With the industry’s broadest in-house capabilities for winding, stamping, molding, termination and assembly, Standex is uniquely qualified to address green power projects. In addition, our engineers are a trusted resource – providing ideas, engineering expertise and assistance.

### Typical components and projects include:

- Reed switch based float level sensors to conserve water
- Liquid level sensor especially designed to handle viscous, harsh & corrosive dishwasher soap – allowing remote filling and auto dispensing which saves water and energy
- Transformers for power meters which allow excess power to be sold back to the “smart grid”
- Current sense transformers for wind, wave, solar and other alternative power projects
- Transformers for emissions control
- Transformers for urea control/emissions control
- Load sensing transformers to conserve energy
- Transformers for tankless water heaters

### Capabilities include:

- Connector & Terminal Engineering
  - Hi-volume, Progressive Die Stamping
  - Experienced in UL, CSA, IEC, TUV & VDE Standards
  - Mechanical Engineering & Electronic Component Packing
  - 3-D Solid Modeling Design
  - Plastic Molding Capabilities
  - Wire Prep and Wire Harness Assembly
  - Rapid Prototyping
  - Glass to Metal Sealing
  - Laser welding
  - Magnetic component engineering
  - Power Supply & Other Systems Engineering
  - 52ga - 8ga & Foil Magnetic Component Winding
  - Wind and assemble all core shapes and types including laminated
  - Sensor & Reed Switch Engineering
- Complete lab & test capabilities for Mil/Aero, automotive and other industries as required



**Call today to see how  
Standex engineers  
can help “green” the  
environment – and your  
bottom line.**

## Green Market Product Guide

### Laboratory test capabilities for Power Meter applications:

- Thermal Shock Testing (-70°C to 200°C, LN2 boost assures less than a 5 minute air-temperature recovery time).
- Thermal Cycle Testing (-68°C to 177°C)
- Humidity Testing (-18°C to 93°C, 98% RH, cycle temp or steady state).
- Vibration Testing (Sine or Random profile, 1" pk-pk displacement, 0 to 80 g pk, 5 to 2000 HZ)
- Mechanical Shock Drop Testing (½ sine 50g 11ms, ½ sine 1500g .5ms, or sawtooth 100g 6ms)
- Hi Temp Testing (Up to 260°C)
- Salt Fog Testing
- Solderability Testing

### The Oakville lab facility is approved as a Witness Testing Location by the following agencies:

- Canadian Standards Association (CSA)
- Underwriters Laboratories
- Intertek Testing Services (ETL)
- TÜV Rheinland®



Liquid level sensors



Bracket Mount transformers



SMD packages for glass break detectors and metering applications



Current-Sense Transformers for a Broad Range of Applications



Reed Switches



Emissions reducing "voice coil" for marine applications



Current Sense transformers



Conductive liquid level sensor