

HVAC Market Applications

Connectors, Terminals, Sensors and Custom Transformers



Custom transformers can often help designers of HVAC/R equipment to gain a competitive edge in the marketplace. Our robust designs are available as single components – or can be combined with other components such as wiring harnesses, leads, moldings, stamping, even integration into upstream/downstream components like sensors to simplify installation and reduce costs.

Combining multiple HVAC components provides further proof of the value of custom products. Standex engineers have worked with several major compressor suppliers to develop custom products – from custom terminals for high amperage applications to wiring harnesses that incorporate Standex terminals, blocks and in line fuses.

Commercial cooling appliances have also benefitted from Standex current sense transformers. We helped a manufacturer of frozen drink machines increase the consistency of their end product by monitoring current draw as the agitator paddles moved through the freezing mix, rather than measuring temperature.

Custom and Standard Standex assemblies for HVAC/R applications:

- Current sense transformers
- Transformers for commercial and residential heating applications
- Connector blocks to mate with hermetically-sealed connectors for air conditioning compressor applications
- PC mount current-sense transformer with integrated primary winding; Designed to meet your agency requirements
- Progressive-Die Stamped Terminals for HVAC/R
- A broad range of Push-on / Crimp-on connectors

Capabilities include:

- Application Engineering
- Connector & Terminal Engineering
- Hi-volume, Progressive Die Stamping
- Experienced in UL, CSA, IEC, TUV & VDE Standards
- Mechanical Engineering & Electronic Component Packaging
- 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
- 52ga - 8ga & Foil Magnetic Component Winding
- Wind and assemble all core shapes and types including laminated
- Sensor & Reed Switch Engineerin
- Complete lab & test capabilities for Mil/Aero, automotive and other industries as require



**Call today – we'll have you
chillin' in no time!**

HVAC Market Product Guide

Laboratory test capabilities for HVAC/R applications:

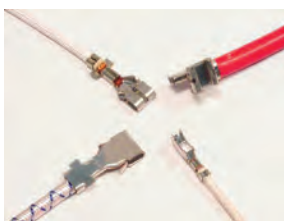
- Thermal Shock Testing (-70°C to 200°C, LN2 boost assures less than a 5 minute air-temperature recovery time).
- Thermal Cycle Testing (-68°C to 177°C)
- Humidity Testing (-18°C to 93°C, 98% RH, cycle temp or steady state).
- Vibration Testing (Sine or Random profile, 1" pk-pk displacement, 0 to 80 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®



Channel-Mount Transformers for a Variety of HVAC/R and Other Applications



Push-on / Crimp-on Connectors



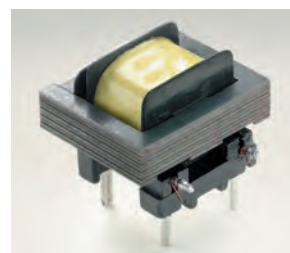
Current-Sense Transformers for a Broad Range of Applications



Toroidal Current-Sense Transformers, PC Mount and with Wire Leads



Custom Fluid-Level Sensor, Ideal for Severe or 'Cruddy' Applications Where the Fluid is Corrosive or Builds Up on the Sensor Probes



PC Mount Current-Sense Transformer with Integrated Primary Winding; Patented; Designed to Meet UL Requirements



Progressive-Die Stamped Terminals for HVAC/R and Other Applications



Custom Solenoid Assemblies and Value-Added Packaging