

**Introducing the Next Generation of Motor Efficiency**

- **SC901 Smart Controller**
- Reduced Power Costs in existing VFD Applications
- Retains All of the **H.E.L.P. System Features**
- Works with all major brands of VFD's
- Direct replacement for costly and less efficient PLCs
- 38% more efficient than PLC/VFD installations

**Inside this issue:**

<b>The New SC901 Smart Controller</b>	1
<b>SC901 Smart Controller; Key Features</b>	2
<b>SC901 Smart Controller; Performance Modes</b>	2
<b>SC901 Smart Controller; Specifications</b>	2

# **H.E.L.P. (HIGH EFFICIENCY LOCAL PROCESSOR)**

## **NEW SC901 SMART CONTROLLER**

### **SOLVES VFD APPLICATION NEEDS!**

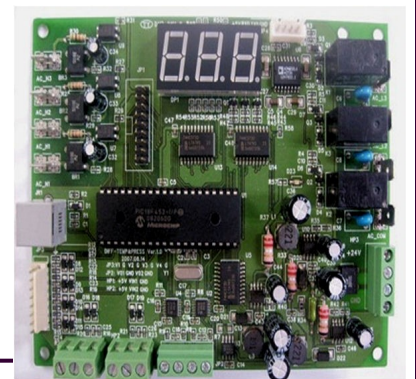


Volume 1, Issue 5

November 11, 2010

#### **The H.E.L.P. (High Efficiency Local Processor) System to offer "Stand Alone" Smart Controller for VFD Applications...**

- \* **Motors consume ~70% of all industrial energy...**
- \* **The TTC H.E.L.P. System Smart Controller is now available for VFD Controlled equipment...**
- \* **This new SC901 Smart Controller interfaces with most existing VFD's...**
- \* **VFD users can now easily upgrade their controls system to take advantage of H.E.L.P. System Energy Savings...**



**The newly released SC901 Smart Controller for VFD applications.**

The Technology Consortium (TTC) is proud to introduce the next-generation of the **H.E.L.P.** energy saving system.

The new **SC901 Smart Controller** is a "Stand Alone" solution for current VFD equipment users. This is especially desirable where you want to increase equipment efficiency, and save a substantial amount of energy, yet an existing VFD precludes the use of the full **H.E.L.P.** System.

The **SC901 Smart Controller** was developed due to customer demand for a stand-alone controller to use on existing Variable Frequency Drives. As an augmentation to existing VFD equipment, this new Smart Controller has many new features and abilities previously not available. This new generation of "Smart Controller" will automatically "Learn" your process to provide optimum system output! The SC901 takes over the management of the existing VFD and provides continuous and real-time control of motor speeds.

The **SC901 Smart Controller** will dramatically increase your equipments efficiency, while providing a kW reduction of 30-50%.

### **SC901 Smart Controller Key Features...**

- \* Works with all major brands of VFD's
- \* Direct replacement for costly and less efficient PLC's  
38% more efficient than PLC/VFD installations
- \* Controls a wide range of applications:  
HVAC, Pumps, Fans, Chillers, Compressors, Mixers, Agitators, etc.
- \* Built-in Control Program  
Easy set up with minimal training required
- \* Supports Step-less Speed Change (SSC)
- \* Automatic Bypass Protection (in case of VFD failure)
- \* Protection from Over/under Voltage or Current conditions
- \* Anti-Harmonic distortion protection
- \* FCC & UL Certified, CE Approved for International Installations

### **SC901 Smart Controller Performance Modes...**

#### **7 Programmable operation modes:**

- \* Temperature,
- \* Pressure,
- \* Differential Temperature,
- \* Differential Pressure,
- \* Humidity,
- \* Cool/Warm Applications,
- \* Timed operation,

### **SC901 Smart Controller Specifications...**

#### **Power -**

- \* Input: 24 VDC
- \* Consumption: <0.5 W

#### **Size -**

- \* Dimensions: 140mm x 105mm x 30mm

**Weight:** 100 g

#### **Environmental -**

- \* Operating Temperature: 0 to 50° C
- \* Storage Temperature: -20° C to 60° C

**Humidity:** < 90%

**Vibration:** <0.6 G

#### **Connectors -**

- \* MODBUS RTU -RS232 (RS485 Optional)
- \* 3ψ AC
- \* Fuzzy PID control parameter input
- \* RJ11 - Programming Parameters
- 24 VDC power connector

#### **LED Readout -**

- \* Displays actual frequency percentage