

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
- >30% more efficient than PLCs in existing VFD installations

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

NEW SC901 SMART CONTROLLER SOLVES VFD APPLICATION NEEDS!



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The SC-901/H.E.L.P. System offers "Stand Alone" Smart Controller efficiency & savings for existing VFD Applications...

Note: Motors Typically consume ~70% of all industrial energy!

- * The SC-901 (H.E.L.P. System) Smart Controller is now available for existing VFD Controlled motorized equipment...
- * This new **SC-901 Smart Controller requires No Programming** and interfaces with all existing VFD's...
- * VFD users can now easily upgrade their obsolete and inefficient controls systems to take advantage of the dramatic energy savings of the H.E.L.P. System...



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 controls system.

The new **SC901 Smart Controller** is an easy controls upgrade 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" does NOT require any programming and 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.

SC901 Smart Controller Key Features...

- * Works with all major brands of VFD's
- * Direct replacement for costly and less efficient PLC's
⇒(Proven to be >30% more efficient than a PLC in actual VFD installations)
- * Controls a wide range of applications:
HVAC, Pumps, Fans, Chillers, Compressors, Conveyors, 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 safeguards motors
- * 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