

Russelectric

MODEL 2000 *PLUS*

Automatic Transfer
Control System
With Power Monitoring



RMCP

Model 2000 PLUS Automatic Transfer Control System

Full ATS Control Plus Power Monitoring

The Model 2000 PLUS microprocessor-based control system provides all the functionality of the Model 2000 automatic transfer control **plus the ability to monitor key power data.** Designed as a performance upgrade of the Model 2000, it controls all the operational functions of the automatic transfer switch, including optional accessories.

The Model 2000 PLUS allows remote monitoring using industry standard open architecture communications protocol through a Modbus RTU communications network or through an ethernet network (with a converter). Data can be viewed using customer-provided software or Russelectric Windows®-based SCADA. With the web server communications option, the control provides internet-based remote monitoring and reporting capabilities.

Flexibility and Accuracy

The Model 2000 PLUS samples voltage and current simultaneously for all phases to assure high accuracy under conditions of low power factor or large waveform distortions (harmonics).

Capable of operating at 45 to 66 Hz nominal frequencies, Model 2000 PLUS can be used in single-phase or 3-phase, 3- and 4-wire circuits. It is accurate to 1% for measured values.

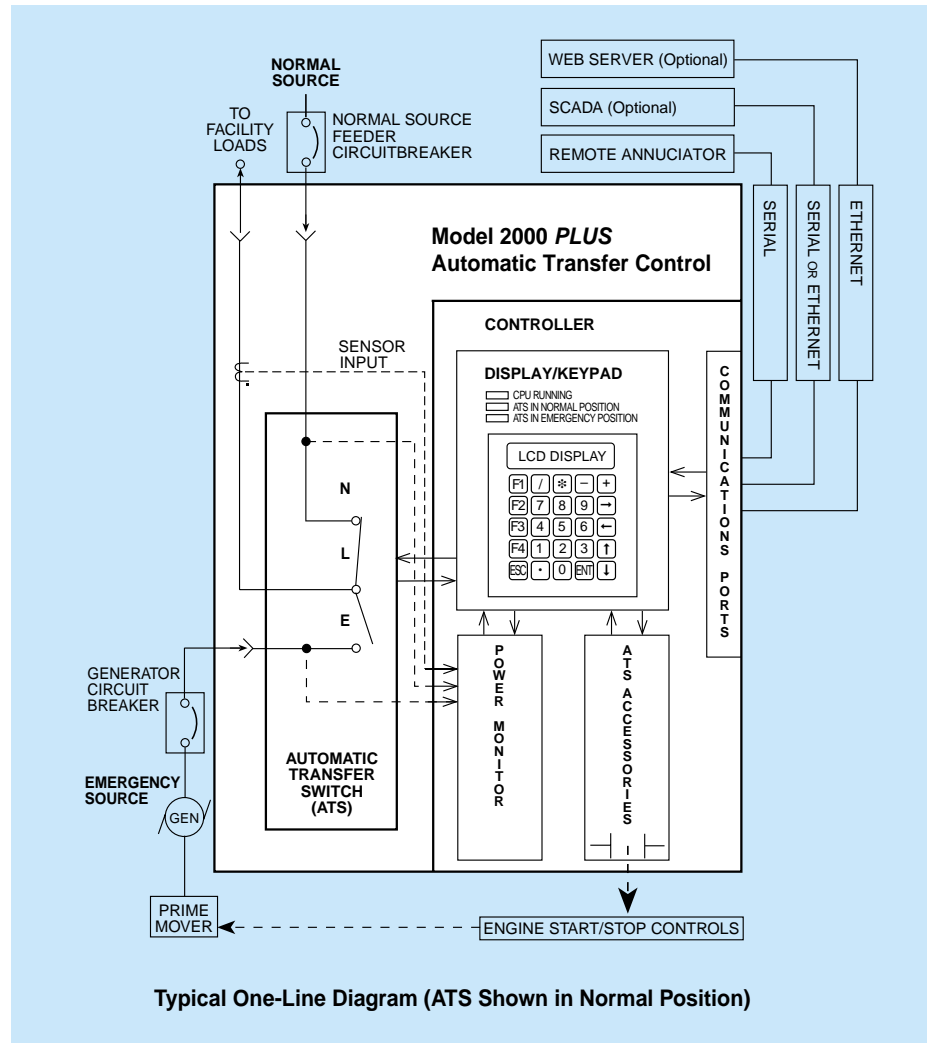
Industry Standard Sensor Inputs

The Russelectric Model 2000 PLUS is designed to accept inputs from industry standard current transformers (5 A secondary). Direct phase voltage connections of 600 VAC or less can be made without the use of PTs.

Local and Remote Reporting of Metered Readings and Computed Values

The Model 2000 PLUS **reports all key power data** — metered readings and computed values — by means of high-speed serial communications. In addition to being transmitted, metered readings are displayed on-site using scroll-down menus accessed through the unit's keypad. These data include:

- Current, per phase RMS and neutral
- % Current Unbalanced
- Voltage, phase-to-phase and phase-to-neutral
- % Voltage Unbalanced
- Real Power (KW), per phase and 3-phase total
- Apparent Power (KVA), per phase and 3-phase total
- Reactive Power (KVAR), per phase and 3-phase total
- Power Factor, per phase and 3-phase total
- Frequency
- Accumulated Energy (KWH, KVAH, and KVARH)



Open Architecture Serial Communications

The controller uses industry standard open architecture communication protocol for high-speed serial communications via multidrop connection to other controllers and to a master terminal with up to 4000 feet of cable (or greater distances with a communications repeater). The serial communication port is RS 422/485 compatible.

Internet-Based Monitoring

With the web server communications option, the Model 2000 PLUS can be accessed via the internet for unlimited remote monitoring flexibility. With only a laptop computer and internet access, a user can view all power data and diagnostic information.

Enhanced Event Reporting

The Model 2000 PLUS logs up to 99 events and reports them in English language text.

Nonvolatile Memory and Auxiliary Control Power

All control setup parameters, programs, and calibration data stored in the unit's nonvolatile memory are saved in the event of a control power interruption.

A rechargeable NiCad battery provides 5 VDC power to the controller during the engine start timing cycle when no AC or DC power is available.

Password Protection

An authorized password is required for all setup and reset functions.