

VAR-Min SR2

Cap Automation for Outage Sensitive Systems



VAR-Min SR2 is:

- an Automatic Capacitor Bank Control
- an Over/Under Frequency and Over/Under Voltage Relay
- an RTU compatible with most SCADA Systems

It is intended for use with 120 or 240 volt, 50 or 60Hz distribution systems. It reads voltage from the control transformer and current from a variety of sensors. Using proprietary algorithms, it calculates:

kVAR **kW** **Power Factor** **Phase Angle** **Voltage** **Current**

With **Stored DC Trip Control** it can immediately take capacitors off line when the frequency or voltage exceed limits and create an out of tolerance condition, even in a complete power outage.

Using **Modbus RTU or Modbus TCP Protocols** it provides **SCADA** access to the electrical parameters listed above and allows supervisory control in addition to the automatic functions.

Optional **Battery Backup** keeps you in touch with it during power outages.

VarMin Companion Software allows control setup using Wizard driven standard schemes or user defined special algorithms. Reports, charts, tables, and graphs are a few mouse clicks away.

VAR-Min SR2

SCADA Ready Automatic Capacitor Bank Control
from Valquest Systems, Inc.

Features

Parameter Measurement

	Range	Resolution
Voltage	95 to 280 VAC	+/- 0.2%
Current	0 to 9999 Amps	+/- 0.5%
Phase Angle	0 to 359.5°	+/- 0.5°
KW	-9999 to +9999 kW	+/- 0.5%
KVAr	-9999 to +9999 kVAr	+/- 0.5%
KVA	0 to 9999 kVA	+/- 0.5%
Power Factor	- 0.5% to +0.5%	+/- 0.5%
Line Frequency	50Hz or 60Hz	+/- 0.01 Hz
Temperature (Optional)	0 to 150F	1 degree

Data Storage

Parameters

Trend Parameters	Voltage, Current, Phase Angle
Derived Parameters	KW, kVAr, kVA, Power Factor
Trend Period (Minutes)	15
Max Records	65536

Current Sensing

Range

Lindsey Line Post Sensor	0-1200 Amps
Fischer Pierce Line Post Sensor	0-1200 Amps
0-10 Amp Secondary CT	0-9999 Amps

Standard control schemes:

- * kVAr with Voltage override
- * Power factor with Current override
- * Temperature with Voltage override
- * Time with Weekend / Holidays
- * Time with Date modification
- * End of line Voltage correction

User defined control schemes based on:

- * kVAr
- * Power Factor
- * Voltage
- * Current
- * Date / Time / Day of week
- * Temperature

All Schemes include the Over/Under Frequency and Over/Under Voltage Relay functions.

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Environmental Specifications

Condition

Operating Temperature
Humidity (Non-Condensing)
Operating Voltage
Power Usage
Enclosure

Range

-40°F to 165°F
0 to 100%
95 to 300 VAC
½ Watt
Nema 4