

PROGRAMMABLE LOGIC CONTROLLER (PLC)

MICRO-COMM

MODEL S4500

FULLY PROGRAMMABLE WITH PLUG-IN MEMORY MODULE

MICRO-COMM RTU, MODBUS RTU & ALLEN-BRADLEY DF1 PROTOCOLS

OPTIONAL FRONT PANEL DISPLAY & EXPANDABLE I/O

RADIO, PHONE LINE, & FIBER OPTIC COMMUNICATIONS

SIMULTANEOUS RTU-RTU & CTU-RTU COMMUNICATIONS

PLUG-IN TERMINAL BLOCKS

The S4500 PLC is a reliable, full-featured Programmable Logic Controller. It is a “smart” unit providing both programmability and interchangeability through a plug-in memory module. As an integrated component of a Supervisory Control and Data Acquisition System (SCADA), the S4500 provides input and output (I/O) monitoring and control with simultaneous “distributed” (RTU to RTU) and “central” (CTU to RTU) type control operations. Its universal communications interface can provide robust control and data transfer via radio, dedicated line, phone line, and fiber optic communication media.

APPLICATIONS

SCADA Systems:

Water Distribution Control and Management
Waste Water Control and Monitoring
Golf Course Irrigation
Agricultural Irrigation
Gas and Oil Monitoring
Electrical Distribution Monitoring

Local Control:

Water Booster Pump Stations
Sewage Lift Stations
Constant and Variable Speed Pump Stations
Metering Stations
Water and Waste Water Treatment Plants



FEATURES

I/O

- 8 Form C Relay Outputs,
- 8 Open Collector Outputs,
- 16 Optically Isolated Discrete Inputs,
- 2 Optically Isolated High Speed Pulse Input,
- 1 Pulse Amplification Circuit for Direct Connection to Flow Meter
- 12 Analog Inputs, 0-5V or 0-20mA
- 4 Additional On-Board Sensor Analog Inputs
Box Temperature, Battery Current,
System Voltage, Receive Signal Strength

Communications

- COM-1A, Radio Port
25pin Sub-D Male, RS-232 and RF signals
- COM-2, Front Panel Display
9pin Sub-D Male RS-232 w/flow control lines
- COM-3, RS-485
- Plug In RF MODEM
0-300, 600, 1200 BAUD

Power Source and Supplies

- 120/240 VAC Power Input Isolation transformer
- SOLAR charging circuit
- Battery charging and backup circuit
- 13.8VDC @ 8A Switching Power supply
- 12 to 24VDC @ 200mA
Sensor Excitation power supply

Micro-Comm Automation has been providing process control solutions for more than 30 years.

Call us at **(913) 390-4500** to place your order or to speak to a sales and service representative. Or, visit us online at www.micro-comm-inc.com

S4500 PLC

MICROCOMM

I/O

- 8 Form C Relay Outputs, 5A @ 250VAC
- 8 Open Collector Outputs, 100mA @ 12VDC
- 16 Optically Isolated Discrete Inputs, Dry Contact or Pulse Inputs
- 2 Optically Isolated High Speed Pulse Inputs
- 1 Pulse Amplification Circuit for Direct Connection to Flow Meter
- 12 Analog Inputs
8ch, 12bit, 0-5V or 0-20mA
4ch, 12bit, 0-5V
- 1 Analog Amplifier Circuit
- 4 Additional On-Board Sensor Analog Inputs
Box Temperature, -50 to 150°C
Battery Current, ±10A
System Voltage
Receive Signal Strength

POWER SOURCE AND SUPPLIES

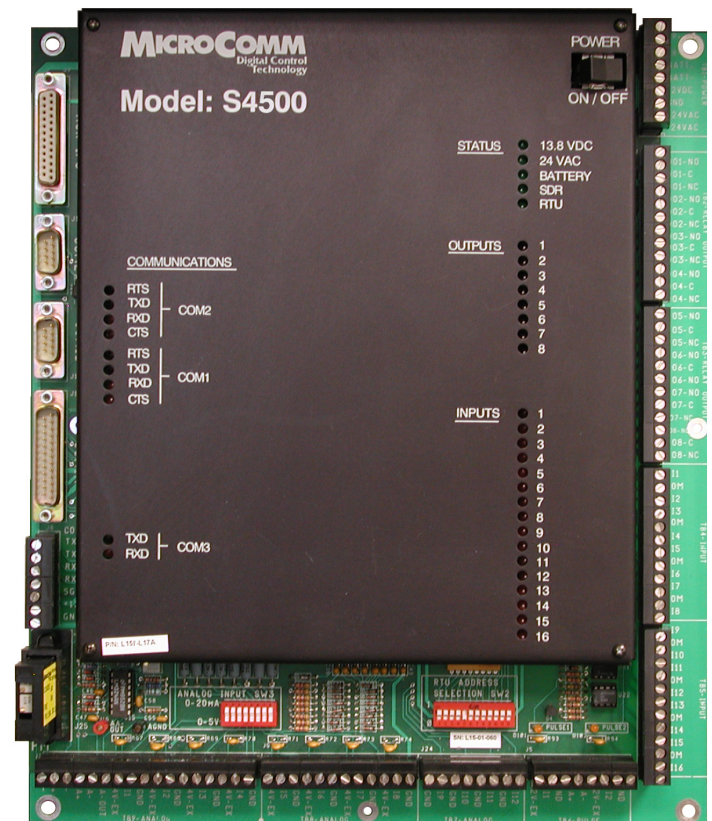
- 120/240 VAC Power Input isolation transformer and surge suppression
- SOLAR charging circuit
- Battery charging and backup circuit
- 13.8VDC @ 8A Switching Power supply
- 12 to 24VDC @ 200mA
Sensor Excitation power supply

CPU AND MEMORY

- 32bit MCU running @ 16MHz
- 1MB FLASH EPROM, Application Program
- 512K RAM, Data
- 1MB Serial FLASH, Configuration

COMMUNICATIONS

- COM-1A, Radio Port
25pin Sub-D Male, RS-232 and RF signals
- COM-1B, Radio Monitor Port
9pin Sub-D Male Tx/D, Rx/D, RTS, GND
- COM-2, Front Panel Display
9pin Sub-D Male RS-232 w/flow control lines
- COM-3, RS-485, 1200–9600 BAUD remote I/O
- Plug In RF MODEM
0-300, 600, 1200 BAUD



L15F-L17A

ORDER INFORMATION

L15F-XXXX

Modem:

- 0 - none (110-19200 baud RS-232)
- L17 - 0-300 baud radio modem
- L17A - 0-600 baud radio modem