

# PROGRAMMABLE LOGIC CONTROLLER (PLC)

**MICRO-COMM**

## MODEL M655

**FULLY PROGRAMMABLE WITH PLUG-IN MEMORY MODULE**

**MICRO-COMM, MODBUS RTU AND ALLEN-BRADLEY DF1 PROTOCOLS**

**OPTIONAL FRONT PANEL DISPLAY & EXPANDABLE I/O**

**SERIAL AND ETHERNET COMMUNICATIONS**

**SIMULTANEOUS RTU-RTU & CTU-RTU COMMUNICATIONS**



**T**he M655 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 M655 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, serial and Ethernet communication media.

### APPLICATIONS

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

### FEATURES

#### I/O

- 4 Open Collector Outputs (COM1 radio switching)

#### Communications

- COM1, Radio Port, 25pin Sub-D Male, RS-232  
Optional RF MODEM, 0-600 or 1200 baud
- COM2, RS-232, 9pin Sub-D Male
- COM3, RS-485 / RS-232, 9pin Sub-D Male
- COM4, RS-485 / RS-232, 9pin Sub-D Male
- Ethernet, 100base-TX

#### CPU and Memory

- 32-bit MCU running 25MHz
- 1MB FLASH, Application Program
- 1MB RAM, Data
- 9MB Serial FLASH, Configuration

#### Power Source

- 12 VDC Power Input

### ORDER INFORMATION

#### Part #

548-002-L17	0-300 baud FSK modem
548-002-L17A	600 baud FSK modem
548-002-L17B	1200 baud FSK modem

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

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# M655 PLC

**MICROCOMM**

## I/O

- 4 Open Collector Outputs, 100mA @ 12VDC (COM1 pins)  
Internal clamping diode to 12V, Used only for antenna switching, not field wire-able
- 2 On-Board Sensor Analog Inputs, 12bit, 0.1% accuracy  
Box Temperature, 0-150°F  
System Voltage, 0-25.5V

## CPU AND MEMORY

- 32-bit MCU running 25MHz
- 1MB FLASH, Application Program
- 1MB RAM, Data
- 9MB Serial FLASH, Configuration
- Realtime Clock with Lithium Battery Backup
- Ethernet coprocessor: 32-bit running 147.5MHz  
with 8MB SDRAM, 2MB FLASH

## COMMUNICATIONS

- COM1, Radio Port DB25M, RS-232  
Optional RF MODEM FSK 0-300, 600, or 1200 baud (Bell 202)
- COM2, Front Panel Display, Programming  
DB9M RS-232 w/flow control lines
- COM3, RS-232/RS-485, DB9M
- COM4, RS-232/RS-485, DB9M
- Ethernet, 100Base-TX, RJ-45

## POWER SOURCE AND SUPPLIES

- Power Supply 12VDC Isolated Source with 8A Fuse,  
Use 14AWG Supply Connections
- Power Input 10.5-15 VDC, 12VDC Nominal 0.5A, 8.0A Max with  
external loads
- Quiescent Current 200mA @ 13.8VDC
- COM1 (pins 9,10,11) 10.5-15VDC, 4.0A, Self Resetting Fuse
- COM2 (pin 4) 10.5-15VDC, 1.0A, Self Resetting Fuse
- COM3 (pin 4) 10.5-15VDC, 1.0A, Self Resetting Fuse
- COM4 (pin 4) 10.5-15VDC, 1.0A, Self Resetting Fuse
- The sum of the load currents must be 7.5A or less
- Temperature Range -40 to 50 degC (-40 to 122 degF)  
Surrounding Air Temperature
- Internal Battery Lithium 3V, 1200mAh, 2/3A Size  
(Real-Time Clock and NVRAM)
- Field Wiring - Use Copper Conductors Only, 60°C  
Wire Range, 12-26 AWG  
Wire Strip Length, 0.310"  
Recommended Tightening Torque, 0.79 N-m / 7.0 lb-in.



## DIMENSIONS

- Height 6.45"
- Width 4.10"
- Depth 4.80" (with personality module)
- Weight 1.25 lb

## ORDER INFORMATION

548-002-XXXX

### Modem:

- L17 - 0-300 baud FSK modem
- L17A - 0-600 baud FSK modem
- L17B - 1200 baud FSK modem