

Alerton Technologies - Modicon FSCS Interface - Application Notes

Part # prefix: ALR

17 MAR 2004

COMMUNICATION FAILURE LED: Led #0 is reserved for the COMM FAILURE LED, driven by the Z-Card. The LED turns on if the Z-Card detects a communication break exceeding about fifteen seconds. When communications with the controller is restored, the COMM FAILURE LED will turn off.

The LAMP TEST switch reports to the PLC. It also performs the lamp test function internally so the PLC programmer is not required to provide code for the lamp test feature. The Panel can also be lamp tested with switch 3 on the eight-position DIP switch located on the Z-card controller.

All other panel switches, including PANEL ENABLE, have no internal logic function. They are reported to the PLC so that the PLC programmer has complete flexibility in their usage.

The Alerton application firmware in the Z-Card includes a refresh function that periodically updates the PLC registers with the immediate values of all of the switches and remote inputs. In addition, any change of state of any input point is immediately reported to the PLC.

The Modicon PLC is the communication slave at address 4. The FSCS panel is the master and initiates all communication with the PLC. Serial data setup is seven data bits, even parity, and one stop bit.