

Alerton Technologies - Modicon FSCS Interface - Application Notes

Rev 2 12 April 2006

NORMAL OPERATION:

The addressable sonalert is controlled by the host. The SILENCE switch is read by the host which must then turn off the sonalert when required. SILENCE is not automatic.

COMMUNICATION FAILURE MODE:

Led #0 is reserved for the COMM FAILURE LED

All LEDs are extinguished and after fifteen seconds without communication then the COMM FAIL LED and the sonalert will both be turned on automatically.

Operating the SILENCE switch automatically silences the sonalert in the absence of host communication.

The COMM FAIL LED is extinguished and the sonalert is silenced automatically when communication is restored.

LAMP TEST:

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.