

Aprilaire 8870 Thermostat

1. Install and wire the Aprilaire 8811 Protocol Adapter, 8818 Distribution Panel (optional), and the 8870 Thermostat using instructions from Aprilaire.
2. Install the ELK-M1XSP per the instructions on page 3. Be sure to enroll the device into the M1.
3. Set the MODE jumpers S5=1, S6=0, S7=1, & S8=1 for Aprilaire. If the M1XSP has a jumper S4, set it to =1. Set Jumper JP3 to the "232" position. The BAUD jumpers S1,S2, & S3 do not matter as the Aprilaire baud rate is preset internally.
4. Plug the Aprilaire supplied 6 ft RJ to DB9 Cable between the 8811 Protocol Adapter and the ELK-M1XSP. DO NOT USE THE ELK-WO37A CABLE.
5. Power up the Aprilaire Thermostat and Protocol Adapter.
6. Program the unit address and any other options in the Thermostat per its instructions. The unit address must match the Thermostat number in the M1 Control. The first Thermostat should be Address 1.
7. Using the ELK-RP Software, program the M1 using steps A,B, and C. Test and verify operation using steps D and E.
 - 7a. Click on the Automation Tab in the ELK-RP software. Click on Thermostat icon and program a name for Thermostat 1.
 - 7b. Click on the Task icon and program at least two tasks. Name the 1st Task "Economy Mode" and the 2nd "Comfort Mode".
 - 7c. Click on the Rules icon and create the following 4 rules.

Whenever [Area Name] Armed State Becomes Armed Away
Then Activate [Economy Mode] (Task 1)

Whenever [Task Name] (Task 1) Is Activated
Then Set [Thermostat 1] (TStat 1) Cooling Desired Temp to 85 degrees

Whenever [Area] Armed State Becomes Disarmed
Then Activate [Comfort Mode] (Task 2)

Whenever [Task Name] (Task 2) Is Activated
Then Set [Thermostat 1] (TStat 1) Cooling Desired Temp to 70 degrees

- 7d. Use the M1 Keypad to verify the M1XSP & Thermostat operation. Press the ELK key followed by the Right arrow key to access Menu 1-View/Control Automation Fncts. Press 6 for the Thermostat Temperature sub-menu, followed by Right arrow key. The Keypad should display the first Thermostat (T01) along with its name and current temperature reading.
- 7e. Go into the Tasks sub-menu and select Economy Mode (Task 1). Press the # key to activate. When this task is activated the thermostat cooling setpoint should go to 85 degrees. Confirm this on the display.

