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Connection to a controller without remote start

This is a proposed solution to those controllers not fitted with a remote start, in my opinion a very poor design omission. This is not an ideal solution but I consider a practical one. For ease of explanation the EvapoIrrigator does not store starts. Irrigation controller size is arbitrary but I have selected a 24 station. The time clock on the controller has been programmed when to irrigate + length of irrigation cycle + user definable delay, the EvapoIrrigator controls when water is applied via the re-routing of common supply through the EvapoIrrigator relay contact.

There are 3 operating scenarios where Acc degC = set point.

The first is the ideal condition where the EvapoIrrigator relay is operated and the contact RLB is closed during the period when the controller is not running an irrigation cycle. When the controller initiates irrigation, station 1 must be activated and relay RLA contact is connected to the EvapoIrrigator and can be considered as a SET input. EvapoIrrigator relay RLB remains closed. At station 24 relay RLC is switched and its closed contact is connected to the EvapoIrrigator control and can be considered as a RESET input. When RLC contact is released at end of irrigation, the EvapoIrrigator relay opens. During the period of irrigation Acc degC hours are accumulated.

The second scenario, the EvapoIrrigator relay RLB contact closes during an irrigation cycle at station 23, result stations 23 and 24 are watered, relay contact RLB remains closed.

Three, EvapoIrrigator relay RLB contact closes during an irrigation cycle at station 2, resulting in irrigation of stations 2 through to 24, relay RLB contact remains closed.

Worst case condition is that double watering may occur but as stated in paragraph one, the solution is not ideal but the best one I can think of.
The EvapoIrrigator+ can also function in a similar manner with RLC decrementing stored starts. The inhibit is no longer used as this function will be controlled by the irrigation controllers time clock.

IRRIGATION CONTROLLER