

“The Multi-Function Switch” Video Transcript

VIDEO DESCRIPTION:

Length 06:56 min

This video will review the features of the multi-function switch, identify the three versions of the switch, and demonstrate the procedure to program the pre-sets. It is intended as an accompaniment to the technical documentation currently available.

VIDEO TRANSCRIPT:

(Speaker)

Espar Heater Systems welcomes you to the viewing of this technical video presentation on the Multi-Function switch. In this short video, we will review the features of the multifunction switch, identify the three versions available and demonstrate the procedure to program the pre-sets on the multifunction switch. This video is meant to service as an accompaniment to the technical documentation currently available. Please refer to our website at www.espar.com for complete information on the Multifunctional switch.

The Multi-function switch allows the user to program a range of heater control options to suit their distinct operating requirements. The programmable options available on the Multi-Function switch are: low voltage disconnect, heater run timer and the ambient temperature sensor or the temperature control signal. The Multi-Function switch also has an hour meter that can be reset.

3 variation of the Multi-Function switch are available:

The Multi-Function switch with programmable timer and LVD: This is the most basic switch that can operate as a simple on/off switch with an internal countdown timer and LVD.

The Multi-Function switch with programmable timer, LVD and dual inputs: This switch operates as the basic switch but with added inputs from an external programmable timer and an ambient temperature sensor.

The Multi-Function switch with programmable timer, LVD and dual outputs: This switch operates as the basic switch but with added output with pre-heating element which is dependent on the input temperature sensor.

Disconnect the power before setting the Low Voltage Disconnect pre-sets. The low voltage disconnect can be pre-set from 10.5V to 12.5V in increments of 0.5V or from 21V to 25V increments of 0.5V. On initialisation, the Multi-Function switch sends us the input voltage and then automatically configures the user pre-sets to adapt to a 12V or a 24V-operating mode. If the input voltage sent by the Multi-Function switch is greater than 16V, then the user pre-sets is configured to adapt to a 24V-operating mode. If the input voltage sent by the Multi-Function switch is 16V or less, then the user pre-set is configured to adapt to 12V operating mode. The heater run timer can be pre-set by turning the meter to the labeled time. The heater run time pre-set will be read in minutes when the dip switch number one is in the DOWN position. The minimum setting is 10 minutes and the maximum setting is 120 minutes in 10 min increments. The heater run time pre-set will be read in hours, when the dip switch number 1 is in the up position, the minimum setting is 2 hours and the maximum setting is 24 hours, in 2 hour increments. Verify the blink code, and if the switch is not set to the desired LVD and heater run time, then disconnect power, adjust the meter, and fine-tune.

A temperature setting can be programmed into the switch. To program the unit, remove power from switch, set the dipswitch number 2 to position 2 and power the switch up. Immediately push the switch button repeatedly to the desired temperature you wish the heater not to be activated. The temperature setting begins at 0°F and is incremented by 1°F with each closure of the switch. You should see the switch light up every time you push the switch down. A 5 second pause with no switch button closure completes the programming mode. To verify the correct desired temperature setting a two-digit number will be flashed out as a series of pulses. To store the set temperature in memory, remove power from the switch and return the dipswitch back to position 1. Immediately after applying power to the switch, a sequence of flashes will appear revealing the digits for the pre-sets for the low voltage setting and the heater run timer.

[Background music]