

The Calibration Procedures of FTC-100

Ferrotec USA Corp.

Thermistor Calibration (jumper set on Thermistor/RTD side)

- (1) Connect the standard thermistor simulator to the controller's input terminals.
- (2) Press both "Up" and "Down" keys simultaneously for 5 seconds until PV display show " type".
- (3) Use "Up" or "Down" key to select " tr-1 " type. Choose other type if you are using either T/C or RTD.
- (4) Press "Set" key once and PV display will show "tr1L".
- (5) Set the standard thermistor simulator to low scale signal(default 10°C)
- (6) Use "Up" or "Down" key to change its value until this value coincide with the low scale signal.
- (7) Press "Set" key for 5 seconds (**press firm and do not release**) until PV display show "tr1H".
- (8) Set the standard thermistor simulator to high scale signal(default 50°C)
- (9) Use "Up" or "Down" key to change its value until this value coincide with the high scale signal.
- (10) Press "Set" key for 5 seconds (**press firm and do not release**).
- (11) Press both "Set" and "Up" keys simultaneously to return normal operation.

Note:

- For jumper setting, RTD and Thermistor are the same setting. T/C has different jumper setting in the controller. Please refer the quick installation guide document for the proper jumper setting.
- tr-1: thermistor 2.252 K ohm sensor type
- For 2 points calibration of the thermistor, "tr1L" is the low side temperature of the calibration, "tr1H" is the high side temperature of the calibration. The defaults are 10°C for the low point and 50°C for the high point. However, users can specify their low or high side temperature for proper calibration range.