

PUSH BUTTON TC SELECTION PUSH BUTTON RANGING GALVANICALLY ISOLATED TEMPERATURE LINEAR LOW COST 8 STANDARD THERMOCOUPLE TYPES 

TRANSMITTERS



PUSH BUTTON THERMOCOUPLE TEMPERATURE TRANSMITTER MTI203TC

INTRODUCTION

The SEM203TC is the latest in a series of temperature transmitters from MTI Instruments that do not require a PC, trim pots, switches or jumpers in order to calibrate. Instead, the SEM203TC uses a simple push button on the unit to both select the thermocouple type and range the transmitter. The SEM203TC incorporates the latest digital technology assuring drift free linearization, not available with analog designs. Galvanic isolation is standard.

The SEM203TC is available in three versions, each accepting a choice of three different thermocouple types. An on board LED indicates the successful completion of ranging, TC selection and provides indication of sensor health.



Thermocouple Selection

1. Depress and hold button down and then apply power to the unit.
2. Release button.
3. Depress button one, two or three times to select specific thermocouple type. (Model dependant. For Model MTI203T-1 : once for "K", twice for "J", three times for "T").

The LED will blink with each depression. After several seconds the LED will flash the number of times corresponding to the TC selected.

Ranging

1. Connect a thermocouple simulator to input and a 24VDC power supply to output.
2. Set the simulator to the temperature desired at 4mA. Press and HOLD the button down until the LED starts to blink.
3. Set the simulator to the temperature desired at 20mA. Press and release the calibration button. The LED blinks and then stops, confirming the unit is calibrated.