

 FurnacePros DIVISION OF LOCHABER CORNWALL, INC.	MOTOR SPEED CONTROL & ISOLATION MODULE	DOC NBR: PTEC-302
		APRVD: JMC 5/25/11
Factory Setup (Proprietary)		PAGE 1 OF 1

Equipment

Motor Speed Board Model 3911

Isolated Interface Module Model 3984

Motor Speed Board Model 3911

1. Start furnace. On Furnace program Process Screen, set belt speed to zero.
2. Using a nonconductive adjustment tool, adjust the each of the pots at the top of the motor speed board as follows:
 - a. Set zero. Turn Min pot to full CCW. Adjust CW until motor starts. Turn CCW until motor stops.
 - b. Set Max pot full CW and turn back ¼ turn.
 - c. Set Acceleration at between full CCW and midpoint.
 - d. Set Deceleration at between full CCW and midpoint.
 - e. Set Torque to full CW.

3911 POTS	MAX	MIN	ACCEL	DECEL	TORQ
Range	60 to 120% rated speed (25.2–50.4 RPM)	0 - 30% rated speed (0-12.6 RPM)	0.2 s - 10 s CCW – faster CW – slower response time	0.2 s - 10 s CCW – faster CW – slower response time	200% - 250% motor rated current
Factory Setting	just CCW from Full CW	turn CW until motor stops	midway bet CCW and midpoint	midway bet CCW and midpoint	just CCW from Full CW

Isolated Interface Module Model 3984

- a. Set zero. Turn Min pot to full CCW. Adjust CW until motor starts. Turn CCW until motor stops.
- b. Go to Furnace Calibration screen and click Transport Belt 1 Calibration, “Set 50% output to calibrate”.
- c. Adjust Max pot until voltage across Vout and Com equals 5.0 Vdc.

3984 POTS	MIN	MAX
Range	0 - 30% rated speed (0-12.6 RPM)	60 to 120% rated speed (25.2–50.4 RPM)
Factory Setting	turn CW until motor stops	3984 $V_{out-com} = 5 \text{ Vdc}$, or 3911 $V_{S1-S2} = 5.0 \text{ Vdc}$

Calibrate Belt Speed

Calibrate belt speed according to standard procedure.