Technical Note: MT Series PID Setup

- Set-point from Keypad
- Start / Stop from Terminals
- Feedback AI2 Input: 4-20mA (Scaling 0 – 150 PSI)
- System Set-Point Example: 100 PSI

With power-off wire your feedback transducer device (4-20mA) to input AI2 and common and start and Stop switch using connection between L1 and 24V, see quick start manual for user terminals.

1. Power up drive

2. Select "**English**" (Only at first time power up)

3. From the "**Main Menu**" Select "**Drive Menu**" and press rotating knob when done.

4. From the Drive Menu select "**1. 1 Simply Start**" press rotating knob when done.

5. Select "**Macro Configuration**" press rotating knob when done.

6. Select PID Regulation, Press and hold Rotating Knob until display changes back to PID Regul.

7. Select "**Motor Frequency**" (e.g. 60Hz) press rotating knob, select frequency and press rotating knob

8. Select "**Motor Power**" (HP) press rotating knob, enter HP and press rotating knob when done.

9. Select "**Motor Voltage**" (V) press rotating knob, enter voltage and press rotating knob when done.

10. Select "**Motor Current**" (A) press rotating knob, enter current and press rotating knob when done.

11. Press ESC

12. From the "**Drive Menu**" select "**1. 5 Input / Output**" press rotating knob when done.

13. Select "**AI2 Configuration**" press rotating knob when done.

14. Select "**AI2 Min Value**" press rotating knob, enter 4mA and press rotating knob when done.

15. Press ESC twice

16. From the "**Drive Menu**" select "**1. 7 Application Function**" press rotating knob when done.

17. Scroll down to "**PID Regulator**" press rotating knob when done.

18. Scroll to "**Act. Internal PID Ref**" press enter and select "**Yes**" and press rotating knob when done.

19. Scroll to "**Min PID Feedback**" and enter 0 PSI for minimum feedback level (4mA), press rotating knob when done.

20. Scroll to "**Max PID Feedback**" and enter 150 PSI for maximum feedback level (20mA), press rotating knob when done.

21. Scroll to "**Min PID Reference**" and enter 0 PSI for minimum system set-point allowed, press rotating knob when done.

22. Scroll to "**Max PID Reference**" and enter 150 PSI maximum system set-point allowed, press rotating knob when done.

23. Press ESC Key 2 times to go back to the "**Drive Menu**"

24. From the "**Drive Menu**" scroll to "**1. 2 Monitoring**" and press rotating knob

25. Scroll to "**Internal PID Ref**" press rotating know and enter the system set-point (e.g. 100PSI), press rotating knob when done.

26. Press ESC until display shows "**Frequency Ref.**" in Hz

PID Regulator Adjustments can be made using the "**PID Prop Gain**" and "**PID Integral Gain**" located in the "**PID Regulator**" menu under "**1.7 Application Menu**"