

# PMV Remote D3 Potentiometer Calibration

How to calibrate potentiometer in  
F5NU-MECPOT with Remote D3  
positioner

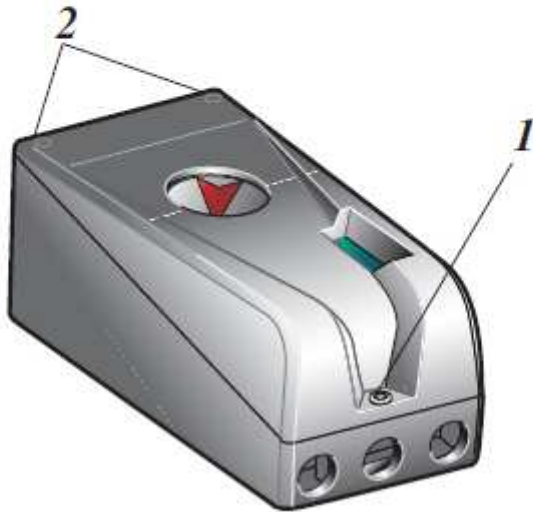
## Removal of D3 Cover

### General purpose / Intrinsically safe

Remove cover by first loosening the screw **1** and then the two screws **2**.

To install cover, first tighten the screw **1**, then the two screws **2**.

Tighten to 1,5 — 2 Nm.

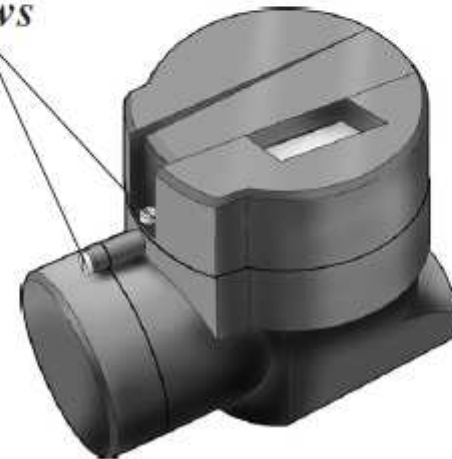


### Explosion proof

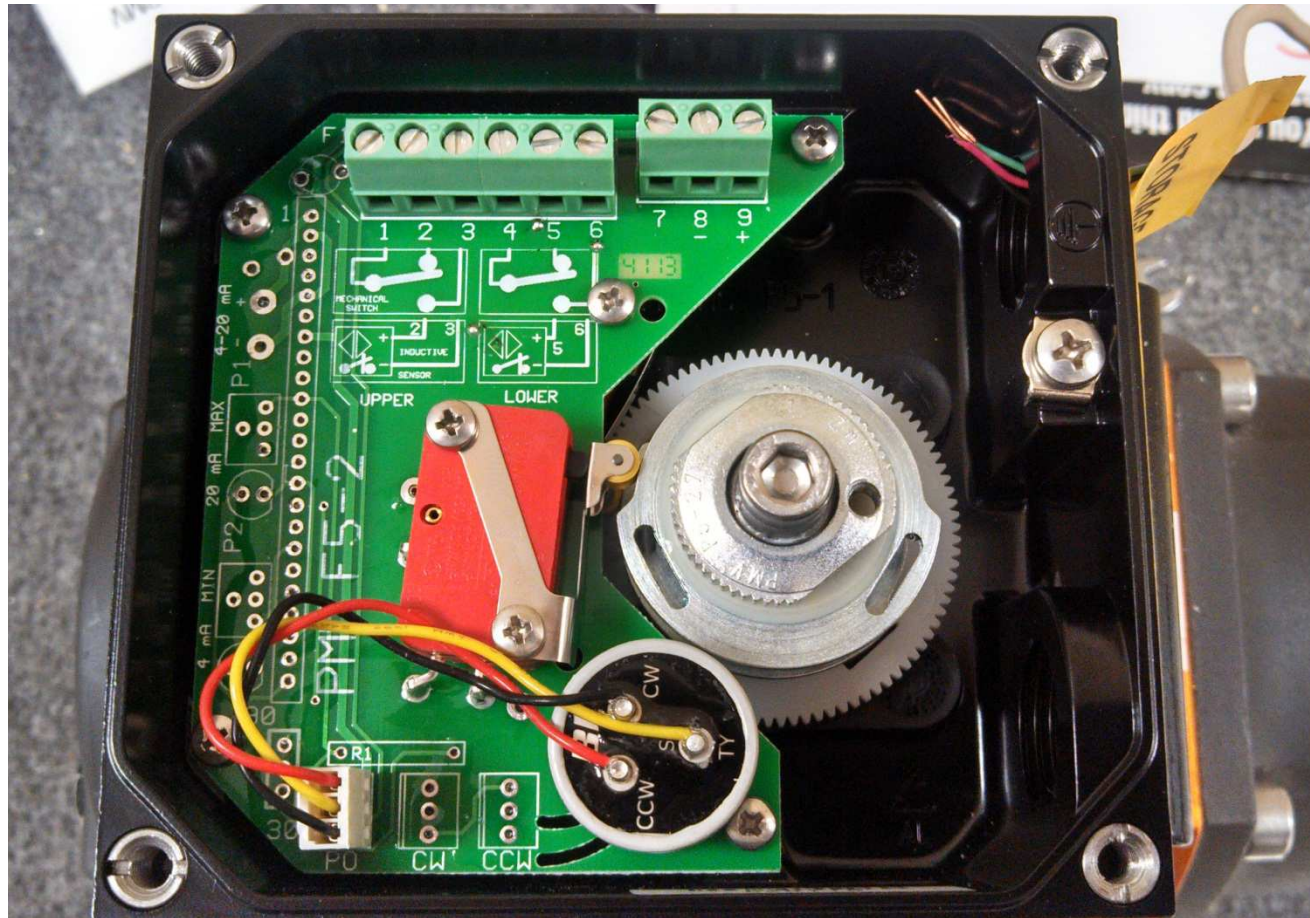
To remove covers, first unscrew securing screws, then unscrew covers.

To install, screw covers on as far as possible. Mount the securing screws. Back off slightly on the large cover to be able to screw down the securing screw completely.

*Securing  
screws*



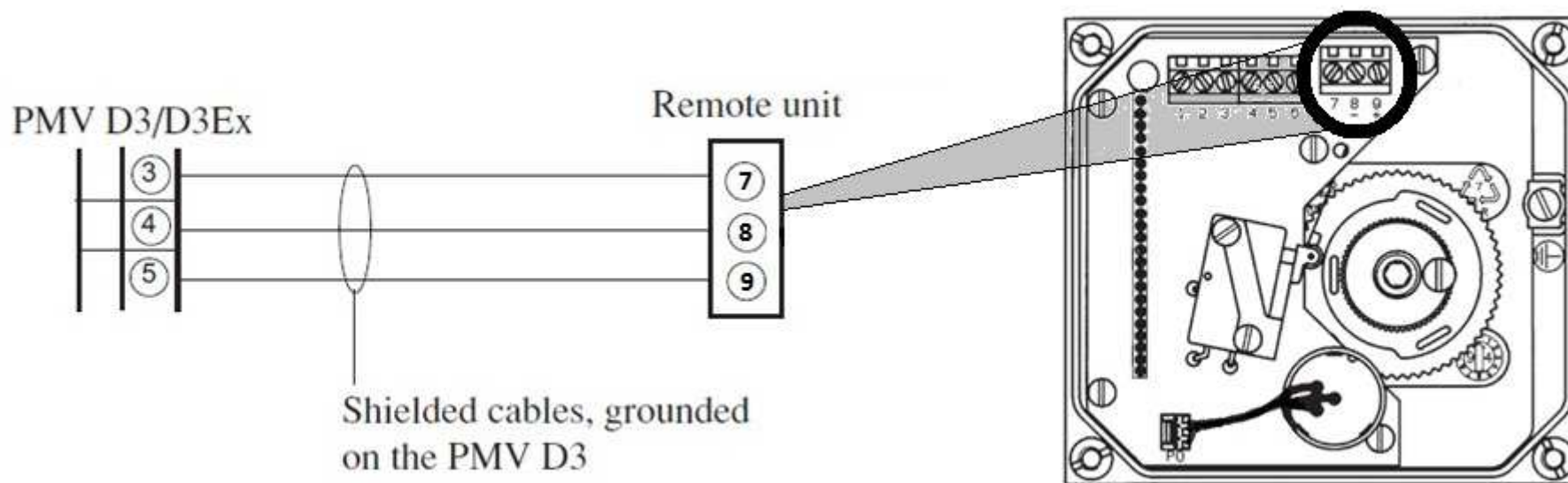
Mount the remote feedback unit onto the actuator

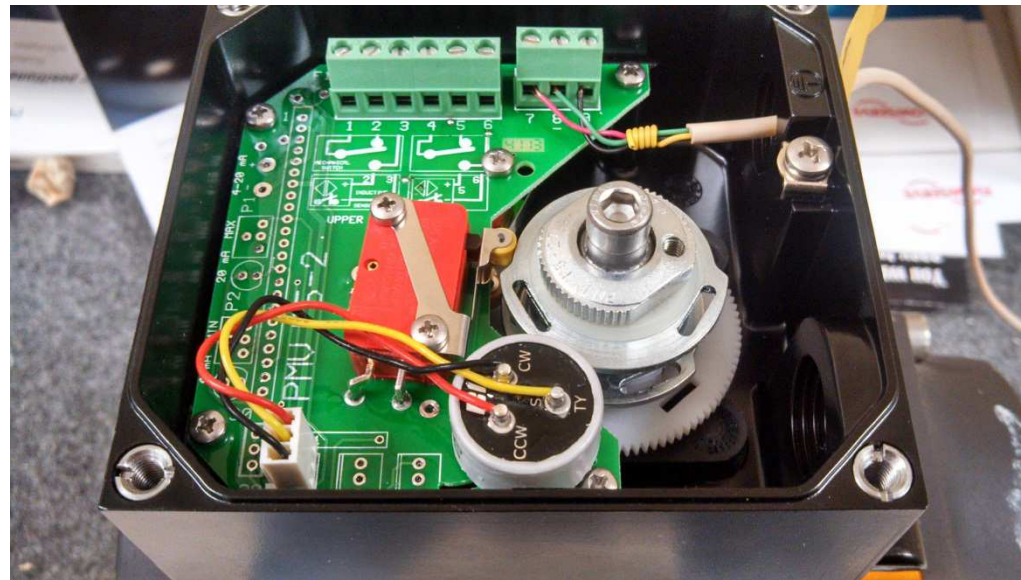
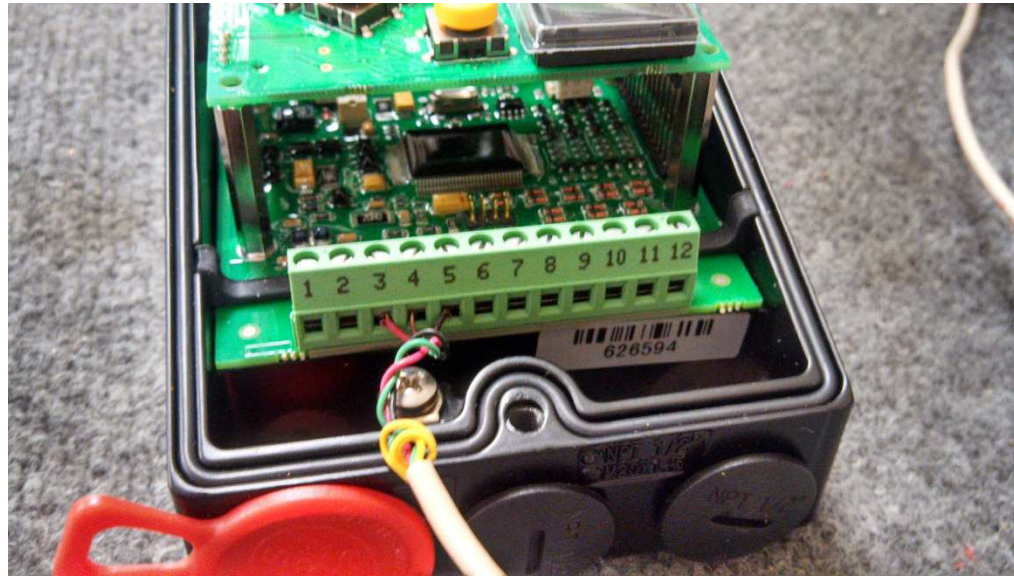


## Wiring Instructions

The remote unit shall be connected between terminals 3, 4 and 5 in the PMV D3 and 7, 8 and 9 in the remote feedback unit. Use a shielded cable and ground it in the PMV D3 only. Max recommended distance between PMV D3 and the remote feedback unit: 5 m (16.4 ft).

**NOTE:** If D3 will be further than 5 m from the valve then you might need to increase the air tubing to 3/8" I.D.





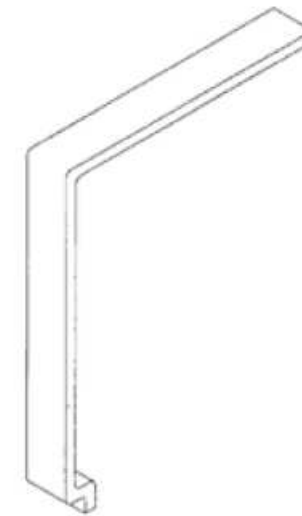
## Calibrating the Potentiometer

1. With power applied to the D3, use the key pad and navigate to **CALIBRATE > EXPERT CAL > POT**. The D3 display should now read like 1.

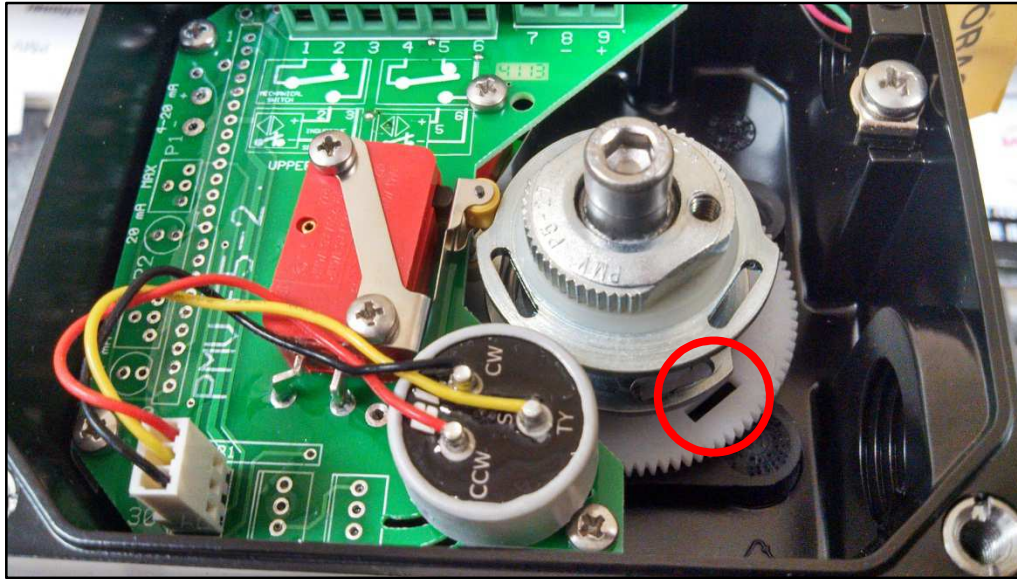
2. Press the Down arrow key to stroke the valve to the correct position. Press the **OK** button once valve is at 0% position.

3. Turn the pot gear in the direction the D3 display says using the F5-22 tool supplied with the remote feedback unit. Once the pot gear is correct, 'POT OK' will be displayed on the D3's LCD. Press **OK**.

**NOTE:** If the D3 never says POT OK, and keeps changing directions from CW to CCW (or vice versa), then rotate the bottom white gear wheel a full 180° and try again.

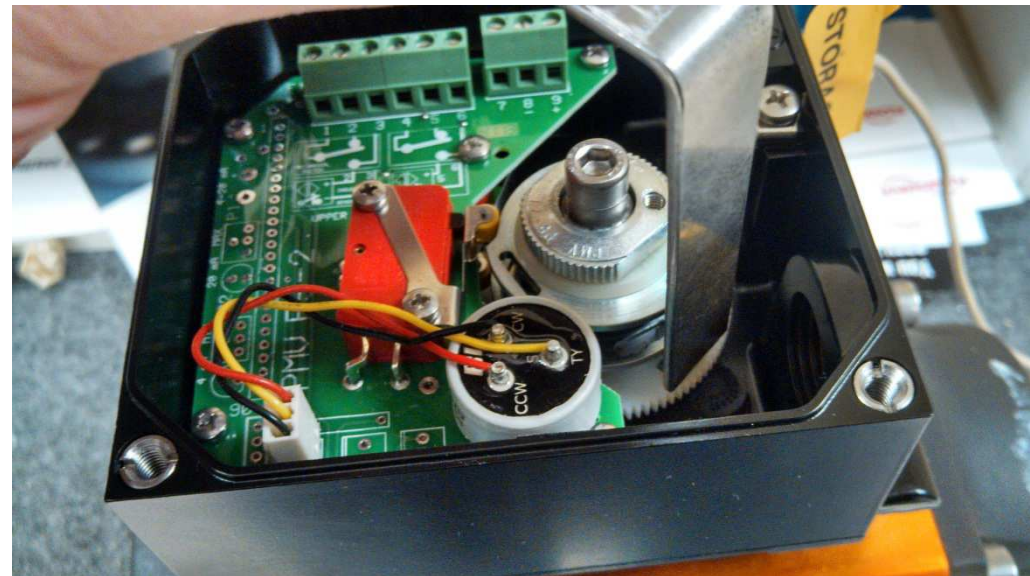


**F5-22**



Insert F5-22 tool into slot in bottom white gear wheel

Follow on-screen instructions to determine which direction to rotate gear wheel. Hit OK button once display says POT OK.



Contact [pmvsales@flowserve.com](mailto:pmvsales@flowserve.com) for additional information