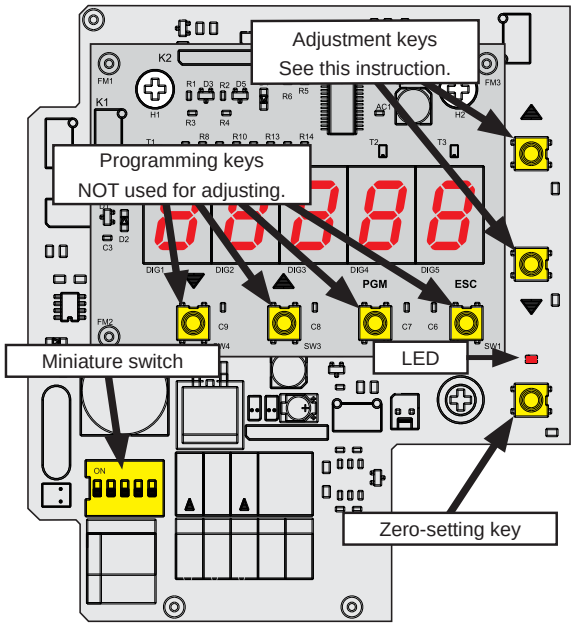
Micaflex P/PD/FD ver 4
Adjusting the calibration

MF-P/PD/FD ver 4

NOTE !
Read through the entire manual before you begin adjusting the calibration.

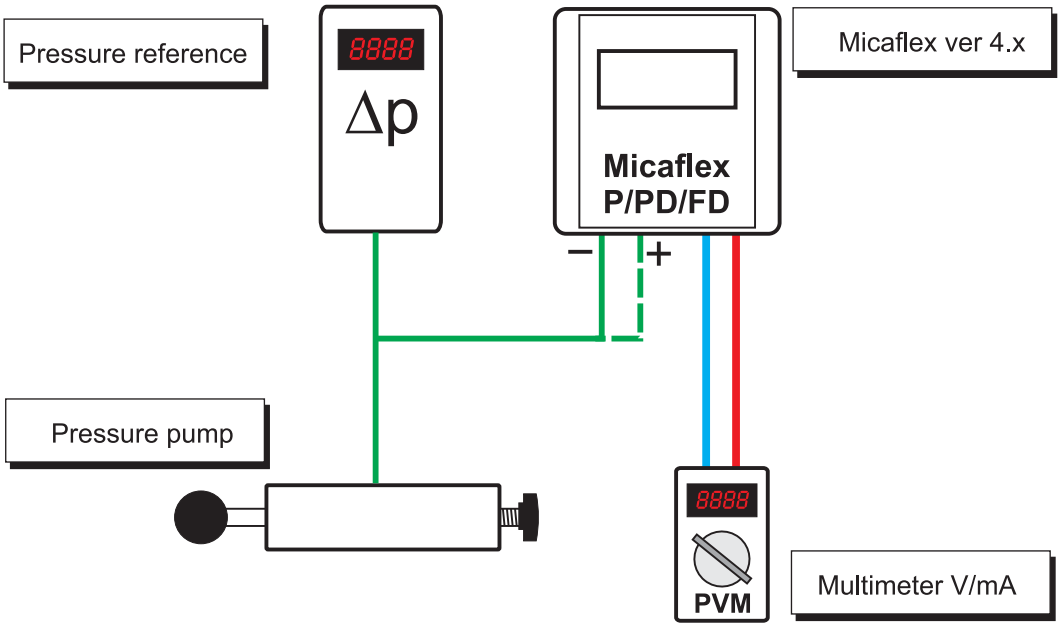
GENERAL
The calibration can be adjusted to correct a measuring deviation on Micaflex P/PD/FD ver 4 if the transmitter is no longer within specification.

NOTE!
This adjustment can not be used for changing the measuring range of the unit.



Connect the necessary instruments for adjustment according to figure below for best results. Remove the front cover on the transmitter to access the adjustment keys on the printed circuit board (PCB) inside the unit.

Turn off any set damping during adjustment.

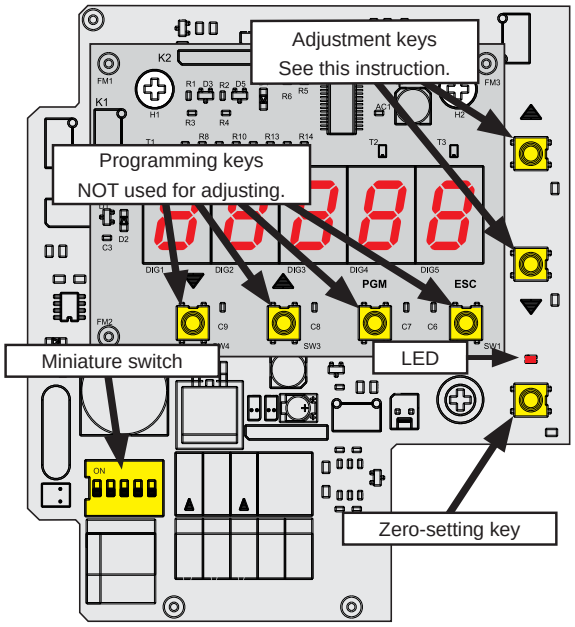


ADJUSTMENT OF THE CALIBRATION

Transmitter with measuring range 0...xxx Pa

1. Remove the pressure tubes from the transmitter and connect a multimeter to Volt or mA output.
2. Take a note of how the damping is set (miniature switch no 4 and 5) and then place both switches in position ”OFF”.
3. Press down the Zero-setting key until the LED turns off. Release the key and the zero-setting is finished.
4. Set the miniature switch no 2 in position ”ON” to activate the adjustment keys.
5. Connect a pressure pump together with a calibrated reference instrument to the positive **[+]** connection.
6. Increase the pressure to the transmitter max. range. Check that the LED is flashing once every 2 seconds. Adjust the output signal using the adjustment keys until the signal is 10 Volt or 20 mA. The factory settings can be restored if both adjustment keys are pressed down simultaneous for approx. 1 second.
7. After finishing adjustment, set the miniature switch no 2 in position ”OFF” and reset the damping to earlier setting. The LED should now be steady.

NOTE! Any adjustments made will overwrite the original factory calibration and invalidate the originally issued calibration certificate.



Transmitter with a measuring range passing 0 Pa, i.e. -50...+50 Pa

1. Remove the pressure tubes from the transmitter and connect a multimeter to Volt or mA output.
2. Take a note of how the damping is set (miniature switch no 4 and 5) and then place both switches in position ”OFF”.
3. Press down the Zero-setting key until the LED turns off. Release the key and the zero-setting is finished.
4. Set the miniature switch no 2 in position ”ON” to activate the adjustment keys.
5. Connect a pressure pump together with a calibrated reference instrument to the positive **[+]** connection.
6. Increase the pressure to the transmitter max. range. Check that the LED is flashing once every 2 seconds. Adjust the output signal using the adjustment keys until the signal is 10 Volt or 20 mA. The factory settings can be restored if both adjustment keys are pressed down simultaneous for approx. 1 second.
7. Move the pressure pump and the reference instrument to the negative **[-]** connection.
8. Increase the pressure to the transmitter min. range. Check that the LED is flashing twice every 2 seconds. Adjust the output signal using the adjustment keys until the signal is 0 Volt or 4 mA. Note that the voltage output can’t go negative. Adjust the signal so that it is above 0 Volt and then adjust it down slowly until it becomes exactly 0 Volt. The factory settings can be restored if both adjustment keys are pressed down simultaneous for approx. 1 second.
9. After finishing adjustment, set the miniature switch no 2 in position ”OFF” and reset the damping to earlier setting. The LED should now be steady.

NOTE! Any adjustments made will overwrite the original factory calibration and invalidate the originally issued calibration certificate.

NOTE! For Micaflex PD and FD.
Do not mix up the programming keys on the display board with adjustment keys on the motherboard. All adjustment are made with the keys to the right of the display.

AB Micatrone
Aldermansvagen 3
SE-171 48 SOLNA
SWEDEN

Telephone: **+46-8-470 25 00**
Internet: **www.micatrone.com**
E-mail: **info@micatrone.se**

