

UMC AUTOMATION

EZ CONTROL

FACTORY CALIBRATION

Factory settings: 16' H2O (display in hundreds)
0' Con. Ht.
All 4 relays set to 8' (1' dead band on each)
4 to 20 mA output set to 0' to 16'H2O
Jumper settings: J1/center, J2/left, J3/right

STEP 1 Balance sensor * if using load switch go to step 2

With volt meter + on 2 & - on 3 of TB3
Adjust VR7 to 0 VDC

STEP 2 Set zero voltage * 0 psi on sensor
 * Load switch in down position

With volt meter + on TP2 & - on TP1
Adjust VR9 to -.4mVDC

STEP 3 Set display zero

Adjust VR5 to 0.01

STEP 4 Set span voltage * 6.93psi on sensor
 * Load switch in up position

With volt meter + on TP2 & - on TP1
Adjust VR12 to 2.2 VDC

STEP 5 Set display span

Adjust **VR6** to **16.00**

* Repeat steps 1 thru 5 until VDC values become constant then proceed to 6

STEP 6 Set relays * pull SW1 down (simulation switch)

Adjust **VR8** to **8.00** (on display)

Adjust **VR1** left (Led off) then right (Led on) sets **relay 1**

Adjust **VR2** " " " **relay 2**

Adjust **VR3** " " " **relay 3**

Adjust **VR4** " " " **relay 4**

Adjust **VR8** left checking **ascending** and **dead band relays 1 & 2**

Adjust **VR8** right checking **descending** and **dead band relays 3 & 4**

STEP 7 Set 4 mA output * 0 psi on sensor
* Load switch down

With Amp meter + on 1 & - on 3 of TB4

Adjust **VR55** to **4 mA**

STEP 8 Set 20 mA output * 6.93 psi on sensor
* Load switch up

With Amp meter + on 1 & - on 3 of TB4

Adjust **VR10** to **20 mA**