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**