## **LAE Humidity**





## Meaco LAE 2 stage controller

## **Control Principles**

For the purposes of these instructions we are assuming that you wish to achieve  $55\%RH \pm 5\%RH$ .

If you require a different set point then you can changes the settings in steps **4** and **9**. If you require closer control then simply change the settings accordingly in steps **6** and **11**.

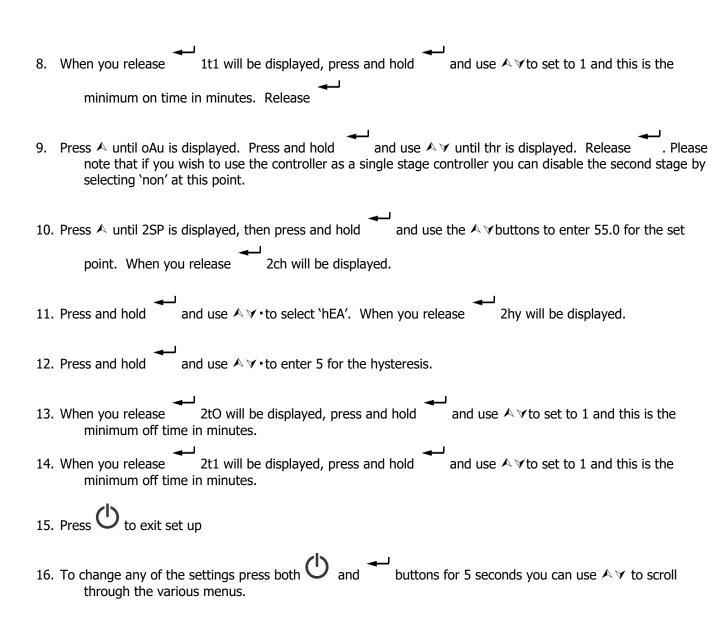
The humidifier will come on at 50%RH and below and turn off at 55%RH. The dehumidifier will come on at 60%RH and above and turn off at 55%RH. This is known as the hysteresis.

If you find that either unit keeps on turning on and off too quickly you can put in a time delay of between 1 and 30 minutes at, stages **7**, **8**, **12** and **13**. In the procedure below, this is set as 1. The relays within this controller can switch loads up to 12 amps for relay 1 and 7 amps for relay 2. Larger loads should be switched using this controller with a contactor in line.



## **Controller Set-up**

- 1. Plug controller in and switch on the power.
- 2. Press both and buttons for 5 seconds.
- 3. "SCL" should now be displayed, you are ready to begin.
- 4. Press ▲ three times to display "1SP", then press and hold and use the ▲ ✓ buttons to enter 55.0 for the set point. When you release 1cñ will be displayed.
- 5. Press button A once, 1ch should be displayed, press and hold and use A v to select 'ref'. When you release 1hy will be displayed.
- 6. Press and hold and use Ay to enter 5 for the hysteresis.
- 7. When you release 1tO will be displayed, press and hold and use A v to set to 1 and this is the minimum off time in minutes.



If the dehumidifier or the humidifier fails they will fail in the off position.

Turn the humidistats on both units to their maximum settings.

To control at a different set-point simply input different values by pressing the L1 and L2 buttons on the front of the controller.

To change the hysteresis from  $\pm 5\%$  simply change the values in stages 6 and 12.

Output 1 = Dehumidifier (Black plug) Output 2 = Humidifier (White plug)

Output 2 – Hamilainer (Write plug)

The alarm function is not used in this controller set up.

If you have any problems then call Meaco on 01782 565 917



