H&T Monitor with Humidity control user guide

H&T Monitor With control Calibration Details

Password = 001

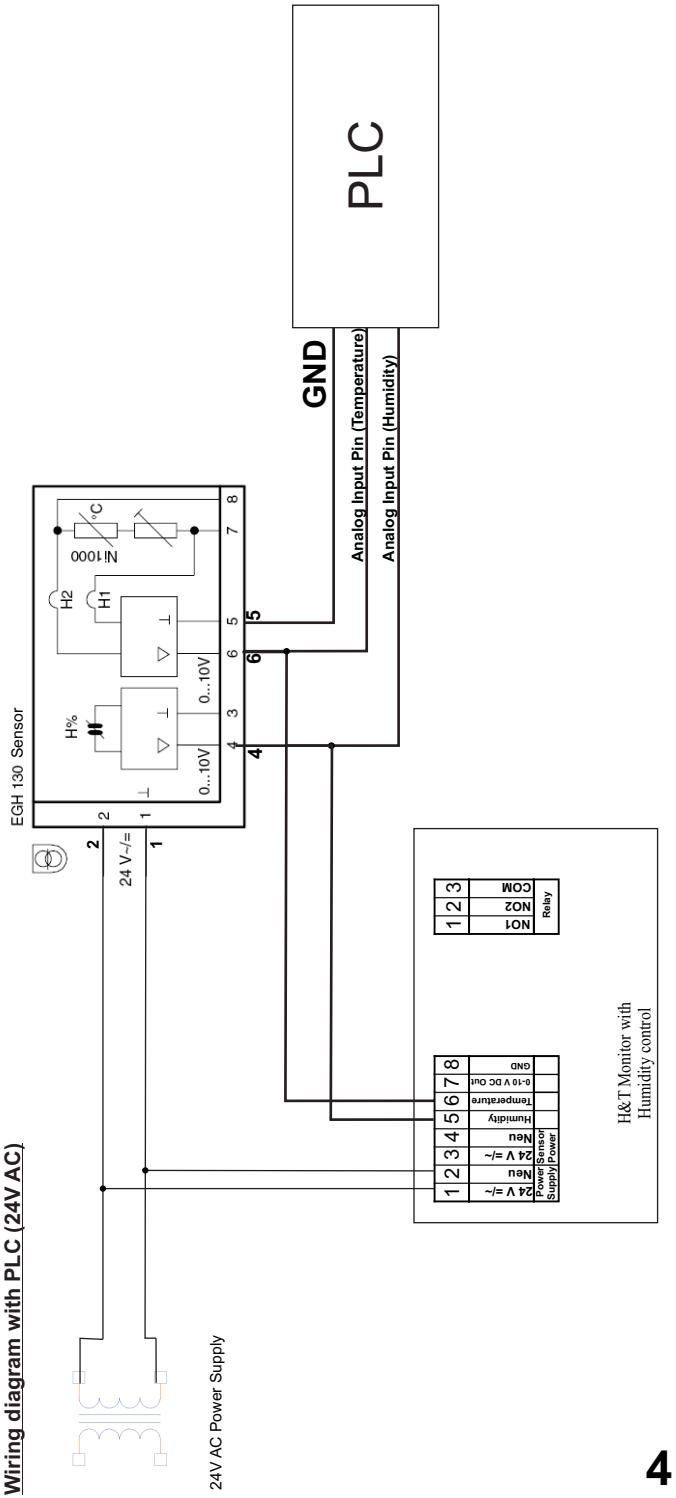
Temperature Calibration (EGH-130)

Temperature Calibration factor (X.XX t.) = 1
Actual display 32.2 * 1 = 32.2 C'
if we need 35.7 C'
X.XX t. = 35.7/32.2 = 1.11
Now Set X.XX t.= 1.11
Then display 32.2 * 1.11 = 35.7 C'

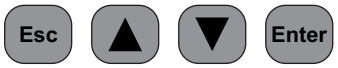
Humidity Calibration

Humidity Calibration factor (X.XX H.) = 1
Actual display 86.1 * 1 = 86.1 %
if we need 79.2%
X.XX H. = 79.2 /86.1 = 0.92
Now Set X.XX H. = 0.92
Then display 86.1 * 0.92= 79.2%

Wiring diagram with PLC (24V AC)



Key operation



The 4 keys are used to edit a number in setting menu and password editing

Enter Enter key – it have 3 functions

1.Enter to settings menu
2.Shift rite digit (rite curser move)
3.Save setting number when rite lest digit

Increment key – this key increment number when it press (0 1234567890 123…)

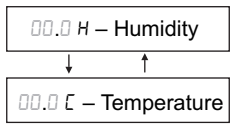
Decrement key- this key decrement number when it press (9876432 1098765…)

Esc Esc key – it have 3 functions

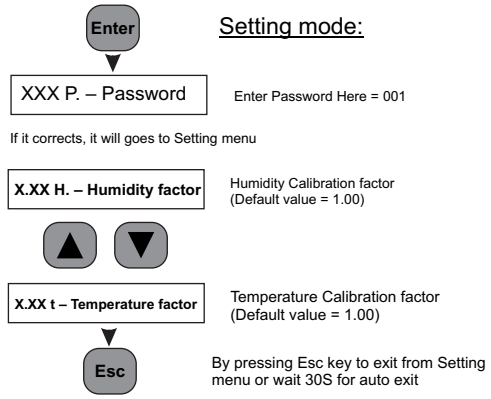
1.Exit to settings value when left lest digit
2.Shift left digit (Left curser move)
3.Exit from setting menu

Program flow

Normal display mode:



Setting mode:



Setting menu:

8.88 H. **– Humidity Calibration factor (Default value = 1.00)**

8.88 t. **– Temperature Calibration factor (EGH-130) (Default value = 1.00)**

8 S. **– display mode selection [0- H&T, 1- H, 2- T]**

88.8 n. **– Relay1 Humidity Setting**

88.8 F. **– % +/- For Relay 1**

88.8 A. **– Relay2 Humidity Setting**

88.8 9. **– % +/- For Relay 2**

% +/- For Relay 1- Calculation:

88.8 n. **(Relay1 Humidity Setting) = 35**
88.8 F. **(% +/- For Relay 1) = 2%**

10V- Calculation:

$$35 - \left[35 \times \left[\frac{2}{100}\right]\right] = 34.3$$

0V- Calculation:

$$35 + \left[35 \times \left[\frac{2}{100}\right]\right] = 35.7$$

%	MIN-ON	Relay 1 Humidity	MAX-OFF
	10V		**0V**
1	34.65	35	35.35
2	34.3	35	35.7
3	33.95	35	36.05
4	33.6	35	36.4
5	33.25	35	36.75
6	32.9	35	37.1
7	32.55	35	37.45
8	32.2	35	37.8
9	31.85	35	38.15
10	31.5	35	38.5