HUMIDITY & TEMPERATURE CONTROLLER

MODEL : PE 9100

Premier's Model PE 9100 is a controller for humidity and temperature and also a logger. It has three output for SRR interface to efficiently control the Humidity and Temperature. PE 9100 is an ON/OFF Controller with logic for compressor ON/OFF (with programmable Time delay) and Heater ON/OFF for temperature control and stem ON/OFF for Humidity Control.

PE 9100 has RS232 output for computer or Printer interface and also has the built in Real Time Clock along with non-volatile memory . It prints data at every Print Interval in On-Line Mode. In Off – Line Mode it stores all the datain its memory which can be printed on the Dot Matrix Printer thro Serial Port or can be taken on Computer.

Features :

- On/Off with hysterisis or Proportional Control.

- Controls both RH and Temperature.

- Two 5 Amp relay contacts.

- Panel mounting size.

- Adjustable dead bands for Relative Humidity and temperature.

- Low Relative Humidity measurement – optional.

- RS 232 / RS 422 output for PC interface.

- Real Time Clock with calendar for Datalogging.

Specifications :

Display	▸	3 ½ digit,LED , 0.5" ht red LED.
Input	▸	RTD Pt – 100 type sensor for temperature. Humidity Sensor with 0 – 3 V DC output.
Range	▸	10 to 90% RH for humidity (temperature compensated) -90 to 90 ° C for temperature (Pt – 100 , RTD type sensor).
Resolution	▸	1 % RH , 0.1 / 1 °C.
Accuracy	▸	1% +/- 1RH , 0.5% +/- 1 count.
Response Time	▸	Less then 30 sec.

Setpoints	▶	Two nos – Digitally adjustable from 0 to 100 % RH, 0 to 85 °C.
Hysterisis	▶	Adjustable from 0 to 50% RH , 0 to 50 °C.
Output	▶	Dual , 1 C/O , 5A/230 VAC.
Power	▶	230 V AC +/- 10% , 50 Hz.
Dimensions	▶	96(w) X 96(h) X 130(d) mm. Panel Mounting Type – Panel Cutout 92 (w) x 92 (h) mm.

RELATIVE HUMIDITY SENSOR TRANSMITTER

MODEL : PE 9090

- 100% Interchangeable.

- Temperature compensated RH measurement.

- Range : 10 to 90 % RH.

- Accuracy : +/- 3% RH.

- Long term stability better than +/- 1 RH / year.

- Built in High Precision Pt-100 temperature sensor – optional.

- Sensor or Transmitter Version with 0 to 1 V or 0 to 20 mA or 4 to 20 mA output.
- Allows cable length up to 50 mtr.

Specifications :

Supply Voltage	5 V DC.
Current Consumption	Approx 3 mA.
Measurement Range	
Humidity	10 – 90 % RH.
Temperature	-40 to 85 dC.
Accuracy	better than +/- 3% RH & +/- 0.5dC.
Output Signal Sensor Transmitter	10 – 90 % RH = 0.30 to 3 V DC 0 to 85dC = 0 to .85 V DC. 4 to 20 mA / 0 to 1 V DC

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