

TECHINCAL DETAILS

OF

Lab Thermo Hygrograph

1. INTRODUCTION

In a Quality Control Lab it is important to know the Temperature & Humidity at a given time so as to verify the condition at which the test has been undertaken in the lab. There are various Instruments available which can measure the Temperature and Humidity in the lab at a given time. **Lab Thermo Hygrograph (New Model)** is the most reliable & accurate equipment for this purpose.

Paramount **Lab Thermo Hygrograph (New Model)** is an advanced version of recording the temperature & humidity on continuous basis. It simultaneously records the constant change in the atmospheric temperature and relative humidity conditions. It is an ideal equipment for textile labs in which the items to be tested like cotton etc are highly hygroscopic in nature.

2. EQUIPMENT

Paramount **Lab Thermo Hygrograph (New Model)** is an ergonomic equipment, which is completely made of fibre with a revolving drum over which graph paper is wrapped. Two specially designed finger with pen at tip to plot the graph on the graph paper roll. A bi-metal strip is there to sense temperature & the change in curvature of the bi-metal strip with temperature is magnified with special mechanism to plot on graph paper. A defatted animal hair is incorporated to sense the change in humidity. Similarly as temperature, humidity is also plotted on the graph paper. It has an exclusive feature of operating it on a Daily or Weekly mode just by the press of a button.

3. SALIENT FEATURES

- Full-cycle recording system that allows recording all the way around the recording paper.
- Maximum and minimum atmospheric temperature and relative humidity values are obtained through continuous recording.
- Built-in quartz clock drive to minimize time errors.
- Slide system for simplified clock settings Compact size.
- Can be placed on the table or hung on the wall.
- Supplied with inspection & conformance certificates.



AATCC
CORPORATE MEMBER

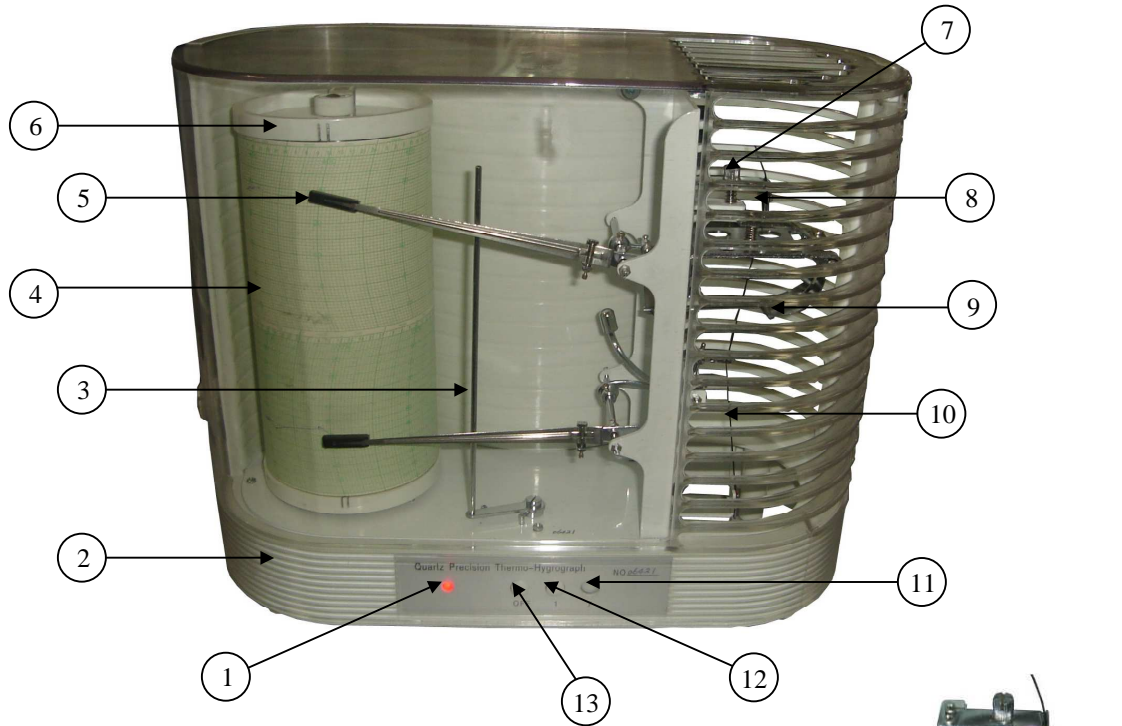


Patron Member



Member Bureau of
Indian Standards

4. Details of the Main Unit of Lab Thermo Hygograph



1. Main Indicator.
2. Base of the unit.
3. Pen Lifter.
4. Drum (with graph paper loaded).
5. Cartridge pen.
6. Paper holder button.
7. Adjustment Screw for Humidity Reading.
8. Adjustment Screw for Temperature Reading.
9. Bimetal.
10. Flat removed hair.
11. 7 (For Weekly Chart)
12. 1 (For Daily Chart)
13. Mains ON / OFF Switch.



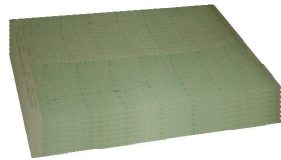
5. Details of the Accessories Supplied with Lab Thermo Hygrograph



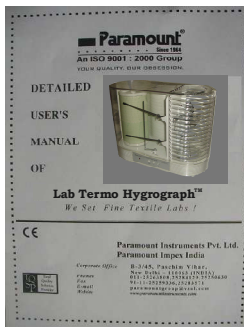
Main Unit



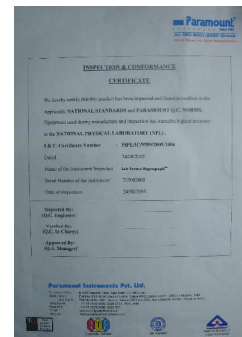
Graph Papers (Weekly Chart)
55 Nos.



Graph Papers (Daily Chart)
370 Nos.



This User's Manual



Inspection & Conformance Certificate

Unpack your **Lab Thermo Hygrograph** and ensure that you have the following units:

- | | | |
|---|---|----------|
| Main Unit | : | 01 No. |
| Graph Papers (Weekly Chart)(For 55 Weeks) | : | 55 Nos. |
| Graph Papers (Daily Chart) | : | 370 Nos. |
| User's Manual | : | 01 No. |
| Inspection & Conformance Certificate | : | 01 No. |



AATCC
CORPORATE MEMBER



Patron Member



Member Bureau of Indian Standards

6. TECHNICAL DETAILS OF Lab Thermo Hygrograph

Item	Measuring Range	Testing Range	Graduation	Accuracy	Reaction Sensor
Temperature	-15-+40°C	-15-+40°C	1°C	± 1° C	Bi-metallic Coil
Humidity	0-100%	30-100%	1 %	± 5%	De-fatted Hair
Record Time	7 Days	7 Days	1 h	± 30 mm	Quartz Clock
	1 Days	1 Days	15 min.	± 5 min.	

NOTE : With our constant endeavour to improve & excel, we reserve the right to alter the specification or modify the appearance without notice.



AATCC
CORPORATE MEMBER



Patron Member



Member Bureau of Indian Standards