

# **ADVANCE**

## **INFRARED MOISTURE BALANCE FOR MOISTURE IN MINUTES-IN SOLIDS, POWDERS & GRANULES**

- DIRECT MOISTURE READINGS TO 0.2% • HIGH ACCURACY & REPEATABILITY
- SIMULTANEOUS DRYING & WEIGHING • CONTROLLED HEAT OUTPUT • PORTABILITY
- FAST & EASY 2-STEP OPERATION • QUARTZ HEATING SYSTEM
- LOCKING FACILITY TO PREVENT TORSION WIRE BREAKAGE
- OPERATION WITH EITHER SOLID STATE CONTROL (STANDARD MODEL)  
OR AUTO TRANSFORMER (DELUXE MODEL)



### **FAST AND ACCURATE DETERMINATION OF MOISTURE IN THESE PRODUCTS :-**

PHARMACEUTICALS-NON-FAT MILK POWDER-DRY MILK-SOYABEAN PRODUCTS-FERTILIZER-CORN  
PRODUCTS-PLANT SEEDS-CHEMICALS-LEATHER-FIBRE-RESINS-PAPER-PULP-SOAP  
& DETERGENTS-FOOD PRODUCTS-CERAMIC POWDER-CLAYS-PAINT PIGMENTS-  
RAW MEAT-DEXTRON-YEAST-PLASTICS-LACTOSE-COTTON-SOIL ETC.

**G. A. INSTRUMENTS PVT. LTD.  
CHENNAI-600 079**



# **ADVANCE**

## **INFRARED MOISTURE BALANCE**

STANDARD MODEL WITH SOLID STATE CONTROL

DELUXE MODEL WITH AUTO TRANSFORMER (Automatic Electric Make, best available in India)

### **INFRARED MOISTURE BALANCE**

Is a very reliable and sturdy instrument for an accurate determination of the moisture contents of materials which do not undergo chemical change when exposed to Infrared radiation. Since drying and weighing of the samples is done simultaneously, the instrument is specially useful for substances which quickly reabsorb moisture after drying. Observations can be taken quickly and the results obtained are accurate. The instrument has been profitably utilized for reliable determination of moisture contents of agricultural soils, foods, chemicals, plastics, pharmaceuticals, construction soils and other similar materials.

The instrument consists of a 250 watt Infrared lamp/Quartz Heating System, a sensitive Torsion Balance and a temperature control all housed in a compact cabinet made of Aluminum, having robust design. The Infrared radiation from the lamp/Quartz Tube is used for heating the sample. The Quartz Heating System provides extremely uniform heating of the sample with deeper heat penetration and minimum heating time as compared to Infrared Lamp. The temperature is controlled by the Solid State control in Standard Model & Auto Transformer in Deluxe Model. The sensitive Torsion Balance uses magnetic damping to damp the vibrations of the pan. The instrument is directly calibrated in percentage of moisture between 0% & 100%. It is available in following Models to suit individual requirements:

1. The Model 'A' uses approximately 5 gms. of the material : For applications in Pharmaceuticals, Light Powders, Chemicals, Detergents etc.
2. The Model 'B' uses approximately 10 gms. of the Material : For Grains, Rice, relatively heavy grained products etc.
3. The Model 'C' uses approximately 25 gms. of the Material : For Coal, Cashewnuts, Sand, Agricultural soils etc.

Modification of Model A to B or C or vice versa is also possible. The aluminum pans are cheap and are disposable. This helps avoid loss of time which otherwise would be spent each time to clean the pans after the experiment is done. The factory set locking system is provided to prevent breakage of Torsion Wire due to customer mishandling.

### **DELUXE MODEL**

Deluxe Model Infrared Moisture Balance is supplied with best quality material and an Auto transformer is used for temperature control.

### **THE BALANCE IS SUPPLIED COMPLETE WITH**

1. One dozen disposable pans
2. Pair of forceps
3. Instruction Manual

### **POWER REQUIREMENT**

230 Volts, 50 Hz (A. C. Mains 250 Watts)

### **DIMENSIONS**

Height : 14 in (36 cm)  
Width : 12 in (30.5 cm)  
Depth : 14 in (36 cm)  
Weight : 11 Kg. (Approx)

### **ACCESSORIES AT EXTRA COST**

1. Automatic timer with Alarm (Cat No. M-3/1). This timer unit gives a continuous buzz after turning the Infrared lamp off after specified time.