



GELATION TIMERS



GELATION TIMER
WITH METAL
HEATING BOCK

VERTICAL GELATION TIMER

A simple yet, highly accurate device for determination of gelation time of various chemical and pharmaceutical products/formulations.

The instrument is designed as per various international guidelines. It consists of a plunger with fixed surface area moving up and down in the sample. When the sample begins to gel, it hinders the plunger movement. The time from start to this hindrance is determined as the gelation time.

APPLICATION :

For Automatic Determination of Gelation times/Pot life of various resins like : Unsaturated Polyester Resins, Epoxy Resins, Acrylic Resins, PU Resins, Silicone Resins and similar reaction resins.

COMPLIANCES

BS 5350 B5; BS 3532 K; BS 3815 K; BS 5617; BS 2782-8, DIN 16 945, DIN 16 916 and EN 14022.

MODELS

VGT-1 : With a stroke rate of 1 stroke/min

VGT-6 : With a stroke rate of 6 stroke/min

VGT-10 : With a stroke rate of 10 strokes/min



SINGLE GELATION
TIMER

Standard Specifications :

Timer Range	: MAX. 9999.59. HOURS
Stroke Length	: 10/13mm
Paddels	: 22 DIA ; 19 DIA and 16 DIA. as per test Standard.
Working Temp. Range	: + 15 ⁰ C TO 50 ⁰ C
Sample Temp. Range	: UPTO 300 ⁰ C (With bath or block)
Load	: 100 w.
POWER	: 230V, 50Hz Ac. Single Phase.

Optional Accessories

A. High Temperature Oil Bath - A die pressed bath with digital temperature control and motorised stirring for uniformity. Can Accomodate upto 3 VGT(s)

B. SS Test Plungers - 16/19/22 dia

C. Glass Test Plungers - 16/19/22 dia

D. Aluminium Test Plungers

E. Glass Sample Cups

F. Liquid free, metal heating block for single test



LIQ. BATH FOR
UPTO 3 GELATION
TIMERS

GELATION TIMER FOR POWDERS



A simple hotplate type gelation timer. It consists of a 100mm hotplate with an indentation in the center for sample holding and a programmable, variable heating rate digital control system, to increase the temperature very gradually, so as to determine the exact gelation temperature. The actual gelation is determined by poking the heated sample with a wooden stick and observing the temperature at which it begins to set.

Standard Specifications :

Working Temp. Range	: 20°C. TO 50°C
Test Temp. Range	: 50° C to 300° C
Temp. Resolution	: 0.1°C
Ramping Rate	: 1°C / Hr. TO 80°C/Hr.
Gelation Detection	: MANUAL
Load	: 550w
Power	: 230V, 50Hz, 1 Phase, A.C.

ROTARY GEL TIME RECORDER



‘CI’ Rotary gelation timers are perfect for determining the gel time of Resinous plastics, adhesives, crying oils, two component elastomers, and paints. A low torque, synchronous motor rotates a specially shaped stirrer in the catalyzed resin or elastomer. As gelation occurs, drag exceeds torque and the motor stalls. This signals an electronic circuit which stops the clock . The gel time will show on the LCD display.

Simple to operate - place the material sample in the cup, insert the wire stirrer, set the counter to 0 and switch on the Unit. Motor can remain stalled overnight without damaging the unit

Models :

RGT-B. : Basic without heating

Standard Specifications

Maximum Recording Time : 999Hr. 59 minutes, 59 seconds

Minimum Recording Time : 1 second

Stir Speed 20 rpm, 2 % accuracy

Optionals : Digital temp controlled heating pot up to 300°C

Spare Stirrers

Spare Sample Cups

DESIGNED & MANUFACTURED BY:



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