

Microprocessor Dissolution Test Apparatus

Microprocessor

1918 & 1916

Dissolution Test Apparatus



Microprocessor Dissolution Test Apparatus is a solid state instrument designed for the determination of active drug ingredient in any pharmaceutical formulation tablet or capsule as per IP and USP specifications. This apparatus evaluates adequate bio-availability and provides necessary information to formulate in the development of therapeutically optimum dosage forms. The instrument is designed and manufactured for pharmaceutical industries. It is used in quality control and R & D to determine compliance with the dissolution requirement of the Tablet and Capsule as per USP/IP standards.

Instrument uses the latest microprocessor technology and advanced engineering techniques so as to give enhanced accuracy and reproducibility. The system has user friendly prompts, which guide you throughout the measurement process.

System is equipped with 4 line alphanumeric LCD display with backlit and 19 soft touch membrane type keys that provides a convenient interface for entering the data. Independent stirrer and platform keys on the front panel allow the user to easily start/stop stirrer movement or displacement of platform in the required direction at any time.

The instrument has the storage facility for 200 samples. The samples being analyzed are automatically stored in the memory in different batch and sample numbers. The system has three programming modes i.e. Routine, Sustain and Control mode. It has the facility for setting up 20 different test methods using Routine and Sustain modes which are retained in the memory even when the power is switched OFF. Provision has also been made for attachment of any dot matrix printer with centronics interface so that any of the stored setups/ results can be printed.

ISO
9001

CE

The unit is provided with dissolution vessel with cover, having necessary arrangement to hold temperature sensor and the same is placed in the sturdy, acrylic water bath. The large spread out stainless steel heater ensures perfectly uniform heating. The instrument has dual channel temperature system with sensors to monitor the test temperature of dissolution vessel as well as that of the water bath.

The motorized platform's (stirrer unit) up/down movement of the instrument improves the accessibility for sampling. Stirrer speed is accurately controlled and maintained at ± 1 rpm by microcontroller as per IP, USP specifications.

The elapsed time for the current ongoing test is retained in the instrument's memory. In case of power failure during the run mode, when the instrument is switched On again, the user has the option to run the test from the point of the power failure.

Dispense head to connect to dispense tubing with quick disconnect and is user configurable for filling six or seven dissolution vessels simultaneously. Dispense head is compatible with different manufacturer.

The dispensing cycle of all six or seven vessels is simultaneous and will get complete within less than 4.0 min for quick and uniform temperature.

The media deaeration is performed under the vacuum through the thin film technology. Media tank with 5 micron filter and standard hose bib for quick and easy connection.

Technical Data

GENERAL

STATIONS	8 Station in Model - 1918 6 Station in Model - 1916
DISPLAY	20 x 4 Line Alphanumeric LCD display with Backlit
KEYBOARD	19 soft touch membrane keys
LED'S	4 LED's available for different status indications. 3 LED's for Test status like Run, Alarm, End and one LED for heater on/off status.
PROGRAMMABLE MODES	Routine, Sustain and Control mode. Facility for 20 different test setups available in Routine and Sustain mode.
PRINTER	Provision for the attachment of dot-matrix printer with centronics parallel port interface available.

STIRRER

SPEED	25 - 200 RPM ± 1 RPM
RESOLUTION	1 RPM
ACCURACY	± 1 RPM

TEMPERATURE

RANGE	30°C - 50°C
ACCURACY	± 0.2 °C
TEMPERATURE CONTROL	Microprocessor based using PT100/ Semiconductor Sensor Sampling
REACTION VESSEL	1000 ml jar with stirrer pedal and basket
HEATER	1 KW
POWER	230 V $\pm 10\%$ AC, 50 Hz
TANK CAPACITY	40 Liters
VOLUME SETTING	Dispense Volume - 250 - 1000ml

Characteristics:-

- Capability to preheat, filter, measure, de-aerate and deliver dissolution media simultaneously into six vessel's at a time
- USP TOOL Kit for Media De-Aeration Norms.
- Extra tank with Teflon coated Heater, Filter cartridge and controller to pre-Heat the media

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