

# Microprocessor Dissolution Test Apparatus

1918 & 1916



1 Year  
Warranty

GA

**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.

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  $\pm 1$  rpm by microcontroller as per IP, USP specifications.

The elapsed time for the current ongoing test is retained in the instruments 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.



- 8 Station (Model - 1918)
- 6 Station (Model - 1916)
- Complies with USP, IP specifications
- Extremely useful for pharmaceutical labs
- Highly Accurate and Easy to Operate
- Programmable Stirrer Control (25 - 200 RPM)
- 20 x 4 Line Alphanumeric LCD with Backlit
- 19 Soft Touch Membrane Type Keys
- Three programming modes i.e. Routine, Sustain and Control
- 20 Independent Programmable Setups for Routine & Sustain Mode with Storage Facility
- 200 Samples Storage Facility
- Printer Attachment Facility
- Audio Visual Indicators for System Status
- Easy to Empty & Clean the Water bath with Bottom Drainage
- Continuation of Last Sample Run in case of Power Failure



## Dissolution Test Apparatus - 1918 & 1916

### Technical Data

#### ACCESSORIES

- Main Unit with Acrylic Tank & Rectangular Cover Plate and Water Bath Temperature Sensor (T1)
- External Temperature Sensor (T2) for Vessel
- Reaction Vessel capacity 1000 ml (8 Nos. in Model -1918 & (6+1) Nos. in Model -1916)
- Round Acrylic Cover Plate with Hole and a large slit (8 Nos. in Model -1918 and 6 Nos. in Model - 1916)
- S.S. Paddle, S.S Wire Mesh Basket (8 Nos. in Model -1918 and 6 Nos. in Model -1916)
- Glass pipettes with rubber bellows
- Mains Lead
- Instruction Manual
- Dust Cover

#### GENERAL

|                           |  |
|---------------------------|--|
| <b>STATIONS</b>           | 8 Station in Model - 1918<br>6 Station in Model - 1916   |
| <b>DISPLAY</b>            | 20 x 4 Line Alphanumeric LCD display with Backlit  |
| <b>KEYBOARD</b>           | 19 soft touch membrane keys  |
| <b>LED'S</b>              | 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. |
| <b>PROGRAMMABLE MODES</b> | Routine, Sustain and Control mode. Facility for 20 different test setups available in Routine and Sustain mode.                        |
| <b>PRINTER</b>            | Provision for the attachment of dot-matrix printer with centronics parallel port interface available.                                  |

#### STIRRER

|                   |                          |
|-------------------|--------------------------|
| <b>SPEED</b>      | 25 - 200 RPM $\pm$ 1 RPM |
| <b>RESOLUTION</b> | 1 RPM                    |
| <b>ACCURACY</b>   | $\pm$ 1 RPM              |

#### TEMPERATURE

|                            |  |
|----------------------------|--|
| <b>RANGE</b>               | 30 °C - 50 °C  |
| <b>ACCURACY</b>            | $\pm$ 0.2 °C   |
| <b>TEMPERATURE CONTROL</b> | Microprocessor based using PT100/ Semiconductor Sensor |

#### SAMPLING

|                        |   |
|------------------------|---|
| <b>REACTION VESSEL</b> | 1000 ml jar with stirrer pedal and basket |
| <b>HEATER</b>          | 1 KW                                      |
| <b>POWER</b>           | 230 V $\pm$ 10% AC, 50 Hz                 |

Note: Specifications are subject to change due to continuous improvements.

### Product Range

Semi Auto Analyser, Double Beam UV-VIS Spectrophotometer, Single Beam UV-VIS Spectrophotometer, Flame Photometer, Haemoglobin Meter, Photo Colorimeter, pH Meter, Conductivity Meter, TDS Meter, DO Meter, Salinity Meter, Turbidity Meter, Nephelometer, Colony Counter, Karl Fischer Moisture Titrator, Fluorometer, Dissolution Test Apparatus, Disintegration Test Apparatus, Friability Apparatus, Bulk Density Apparatus, Melting Point Apparatus, Tele-Thermometer, Temperature Indicator, Water & Soil Analysis Kit, Portable pH Meter, Portable Conductivity Meter, Portable TDS Meter, Portable DO Meter, Binocular Microscope, Medical, Co-Axial Microscope, Student Microscope.

