

Tap Density Tester



Snaplock™ Mechanism

- Two different cylinder holders with Snaplock™ mechanism designed to hold the 100 ml and 250 ml cylinders

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Methods

USP Method 1 and USP Method 2

- The instrument has 2 methods:
 - USP Method 1
 - USP Method 2
- The test can be performed in 2 different modes in both test methods
 - USP mode - test will run with set number of taps as per USP requirement
 - User mode - test will run with set number of taps as per user requirements



Simultaneous Rotating and Tapping Motion

- Minimizes any possible separation of the mass during tapping down



Free Drop of the Cylinder

- Virtually friction-free bearings ensure a free drop of the cylinder from required height

QbD

Quality by Design

- Complies with USP and ASTM specifications
- 24 x 2 alphanumeric LCD display
- Prompts on the LCD display during the test guides the user
- Online menus and status indicators
- Online validation of drops per minute
- Retention of programmed values in the memory of the instrument
- Power failure detection allows remaining test completion on power resumption
- At the end of the test, results like Tapped Density, Compressibility Index and Hausner Ratio are calculated and displayed
- RS-232 serial port can be connected for printing the test report on serial printer and can be transferred to the computer via optional LAN connectivity device



Report

- Report includes:
 - Test results like Tapped Density, compressibility index and Hausner Ratio
 - Time and date on which the test was performed
 - Serial number of the instrument
 - Entry fields for user name and product details



ETD - 1020



User Friendly Operation



Results



LAN (optional)



Print

Ideal for measuring the tapped density of powders, granules, pellets, flakes and other substances

Standard Accessories



Measuring cylinder
100 ml (class B)
Part no - 0301A00002



Measuring cylinder
250 ml (class B)
Part no - 0301A00004



Cylinder holder
for 100 ml
Part no - 0301A00017



Cylinder holder
for 250 ml
Part no - 0301A00018

Optional Accessories

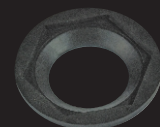


Acoustic cabinet
Part no - 0301A00014

Reduces the sound level to 71 dB
to meet laboratory standards



Adapter for 10 ml cylinder
Part no - 0301A00012



Adapter for 50 ml cylinder
Part no - 0301A00011



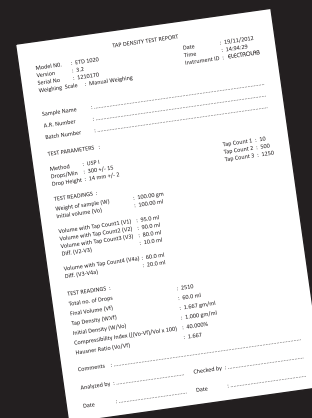
Cares & Maintenance

- It is advised to lock the cylinder holder properly before starting the test (Not doing so could lead to accident & breakage of glasswares)

Part No.	Description
0301A00001	Measuring cylinder 100 ml (with certificate) (class A)
0301A00003	Measuring cylinder 250 ml (with certificate) (class A)

Specifications

Model	ETD-1020	
	230 Volts	110 Volts
Product code	M.S. : 0320300 S.S. : 0340300	M.S. : 0330300 S.S. : 0310300
Test methods	USP I and USP II, ASTM (optional)	
No. of station	2	
Tap height	USP I : 14 mm ± 2 mm, USP II : 3 mm ± 0.2 mm	
Taps / minute	USP I : 300 ± 15, USP II : 250 ± 15	
No. of tap counts	10, 500, 1250	
No. of taps (user mode)	1 to 9999	
Display	20 x 4 alphanumeric LCD	
Type of drive	Direct drive with stepper motor	
Printer Interface	Serial port	
PC Connectivity	Standard : Serial Optional : External LAN	
Electrical power	220/230 V AC ± 10%, 50/60 Hz, 44 VA 110 V AC ± 10%, 50/60 Hz, 44 VA	
Dimensions (W x H x D)	36 cm x 20 cm x 32 cm	
Weight	17 kgs	



Tap Density Test Report

USP 1 (ETD-10) &
USP 2 (ETD-20)
is also available

Our Products

- Complete range of Dissolution Testers • Dissolution Media Preparator • Disintegration Testers • Friability Testers • Tablet Hardness Testers
- Electromagnetic Sieve Shakers • Bulk Density Tester • Powder Flow Tester • Leak Tester • Peristaltic Pumps



The information contained in this document is believed to be correct but ELECTROLAB accepts no liability for any errors and reserves the right to alter specifications without notice
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