TD1 Tap Density Tester

sotax
Solutions for Pharmaceutical Testing

SWISS QUALITY
ISO 9001

The most flexible Tap Density Tester for EP, ASTM, USP I and USP II Tests

- **Complies with** USP 616, ASTM B 527, DIN ISO EN 787/11 and EP 2.9.15
- One **single position** for all measurements with "easy to lock" cylinders
- **LCD display** with easy to scroll menus and EP, USP, user-configurable methods
- **Ethernet port** for printer and RS232 port for balance
- Calculation and **print-out** of test results such as Tapped Density, Compressibility Index and Hausner ratio

PSC
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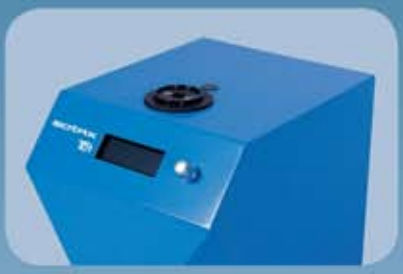

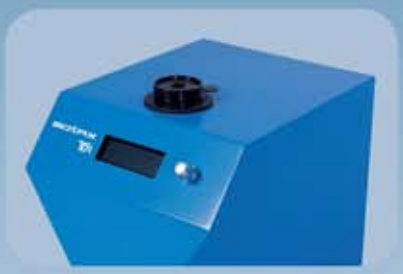

Description

The tapped density and tapped volumes of powders, granules, pellets, flakes and other bulk substances are measured according to EP, ASTM and USP regulations. This technique is particularly useful in powder flowability studies as well as to determine the amount of settlement during transit. Tapped density is found by mechanically tapping (raising the cylinder and allowing it to drop a specified distance under its own weight) a measuring cylinder containing the sample being tested.

Features

The SOTAX TD 1 complies to USP, ASTM, EP and DIN ISO specifications and has just one position for both USP I and USP II/EP tests. An adapter is used to change the drop height from 14 mm to 3 mm. When the TD 1 detects the presence of the adapter, it will only allow the user to start a USP II test or define a "USER" method with customized parameters. The TD 1 has a digital LCD display, an Ethernet port for printer and a RS232 port for balance connection. The last ten reports giving the serial n° of the instrument, method parameters, test results and calculation as Tapped Density, Compressibility index and Hausner ratio, are saved in the instrument memory and can be printed out either on a local or network printer. The 100 ml and 250 ml cylinders are locked onto "easy to lock" holders which allow free rotation of the cylinders. The weight of the holders complies with pharmacopeia requirements.

Optional accessories

100 ml cylinder, 250 ml cylinder, (other dimensions available on demand), acoustic cabinet and printer.

Validation and qualification

The TD 1, just like any other SOTAX instrument, is built to conform to current guidelines. It can be calibrated and qualified using the SOTAX Qualification Plan and this is included in a SOTAX Services Maintenance/ Qualification contract.

Specifications

Test methods:	USP I, II, EP, ASTM, User
N° of stations:	1
Drops/min:	50 – 300 (300 for USP I, 250 for USP II/EP)
Total drops:	1 – 9999
Drops height:	14 mm +/-2 (USP I), 3 mm +/-0.3 (USP II/EP)
Voltage:	110/230 V 50/60 Hz
Interface:	RS232, Ethernet port
Dimensions W/D/H:	230/300/270 mm (without cylinders)

Order Information

Part #	Description
11000	SOTAX TD 1
Includes:	
10758	1 holder for 100 ml cylinder
8424	1 glass cylinder of 100 ml
10757	1 holder for 250 ml cylinder
8425	1 glass cylinder of 250 ml
10964	1 height adapter
Options:	
C100-0020	printer acoustic cabinet

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