

Tapped  
Density

# TD 1

Compact tester that combines two USP / Ph. Eur. methods in one instrument. Print test protocols and connect your external analytical balance for automated data transfer.

SOTAX



## Tapped Density Tester



# TD1 — Compact. Versatile. Compliant.



sotax.com/TD1

Suitable for different  
cylinder sizes / volumes

Quick-change between  
different stroke heights for  
USP / Ph.Eur. methods 1 and 2

Menu-guided qualification  
procedure with printed report

Test protocols including Tapped  
Density, Compressibility Index,  
and Hausner Ratio

Networking and data  
management with q-doc®



User-friendly SingleButton™  
navigation

Recording of weight readings from  
external analytical balance



- Two test methods in  
one instrument
- USP, Ph. Eur., ASTM, and  
DIN EN ISO compliant
- Print test protocols
- Password protection
- Small footprint



### Simply versatile.

The TD1 combines two USP / Ph. Eur. test methods with different stroke heights into one compact single station instrument. Its unique quick-change holder accepts various cylinder sizes – making it the ideal tester for both routine and research tasks. Starting test sequences is fast and easy with SingleButton™ navigation.

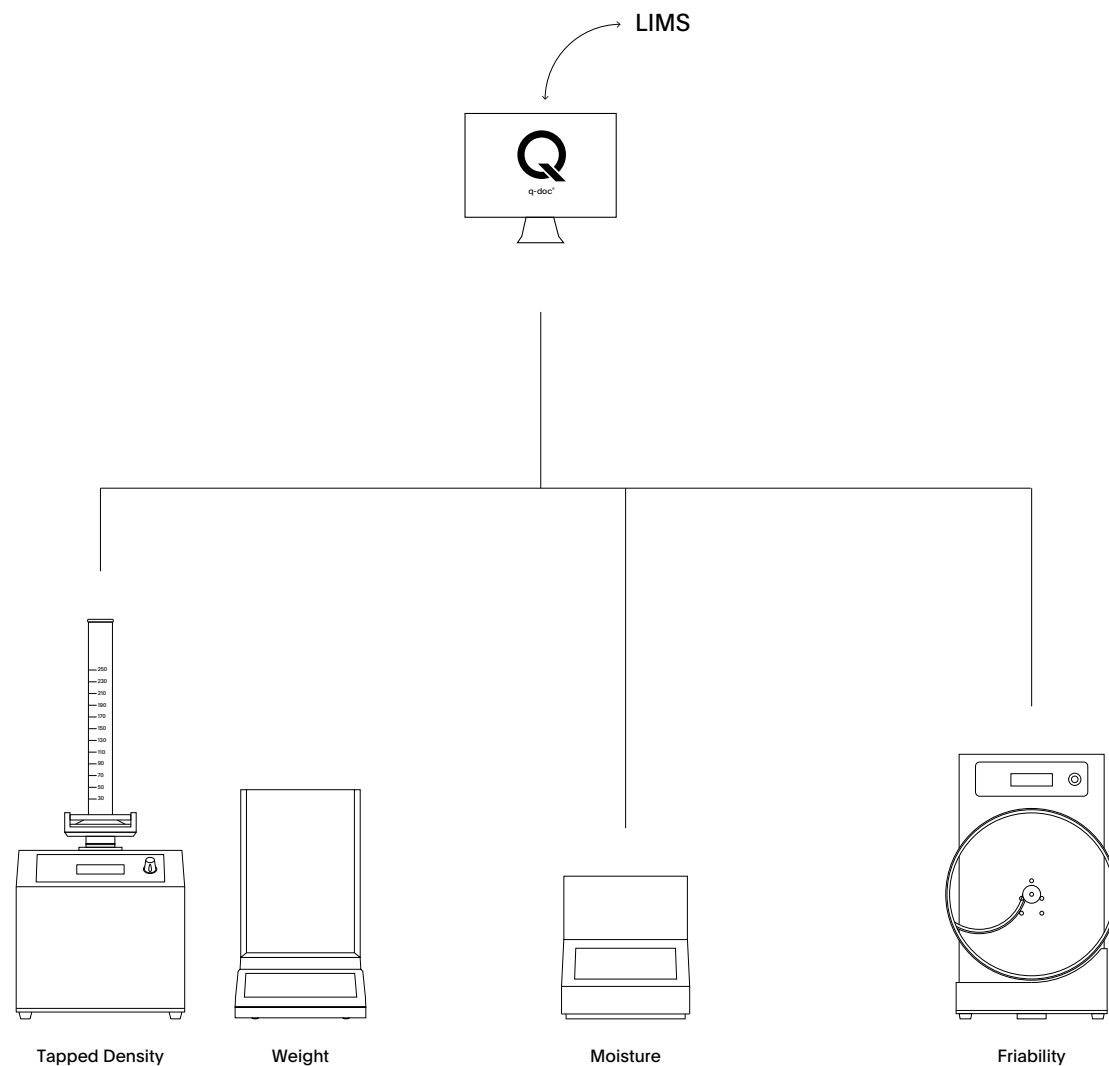
### 100% compliance.

Robust in design, the TD1 fully complies with all applicable norms and standards for tapped density testing of powders – including Pharmacopeia, ASTM, and DIN EN ISO. Qualification intervals can be set as required by your internal procedures. To ensure standardized execution, the qualification routine is fully menu-guided.

# Report results as needed.

To document testing sequences, the TD1 features built-in reporting capabilities. Test protocols with automatic calculation of Tapped Density, Compressibility Index, and Hausner Ratio can be printed on completion of a test. If needed, the TD1 can also be integrated with q-doc® data management for consolidated batch reporting of various tests performed on different instruments.

Example:  
q-doc® network with TD1



## TD1 Technical Specifications

Number of stations	1	
Test methods	USP <616> / Ph. Eur. 2.9.34, Method 1	●
	USP <616> / Ph. Eur. 2.9.34, Method 2	●
	ASTM B 527	●
	DIN EN ISO 787-11	●
	DIN EN ISO 3953	●
	User-defined	●
Strokes per minute	Method 1	300
	Method 2	250
	User-defined	50 – 300, programmable
Stroke height	Method 1	14 mm, ± 2 mm
	Method 2	3 mm, ± 0.2 mm
Cylinder types	Glass cylinder, 250 mL volume	●
	Glass cylinder, 100 mL volume	●
	Glass cylinder, 25 mL volume	○
	Glass cylinder, 10 mL volume	○
Balance connection	Mettler Toledo® / Acculab®	●
User interface	Password protection	●
Printer	LAN printer / Epson® 40col.	Ethernet / RS-232 serial
Data Management	q-doc® software, for data collection	○
Interfaces	Ethernet, 2 × RS-232 serial	
Noise emission	without optional noise reduction cabinet	78 dB (A)
	with optional noise reduction cabinet	58 dB (A)
Power supply	100 – 240 V / 50 – 60 Hz	
Weight	(without packaging)	9 kg (19.8 lbs)
Dimensions	Width	230 mm (9.1 inch)
	Depth	300 mm (11.8 inch)
	Height (without glass cylinder)	270 mm (10.6 inch)
CE Conformity	The TD1 fully complies with all CE and EMC equipment guidelines relative to mechanical and electrical safety and electromagnetic compatibility.	

● included / required  
○ optional

Technical specifications are subject to change without prior notice. Products illustrated in this brochure may include options or modifications not fitted as standard. No liability for errors and omissions.



