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.
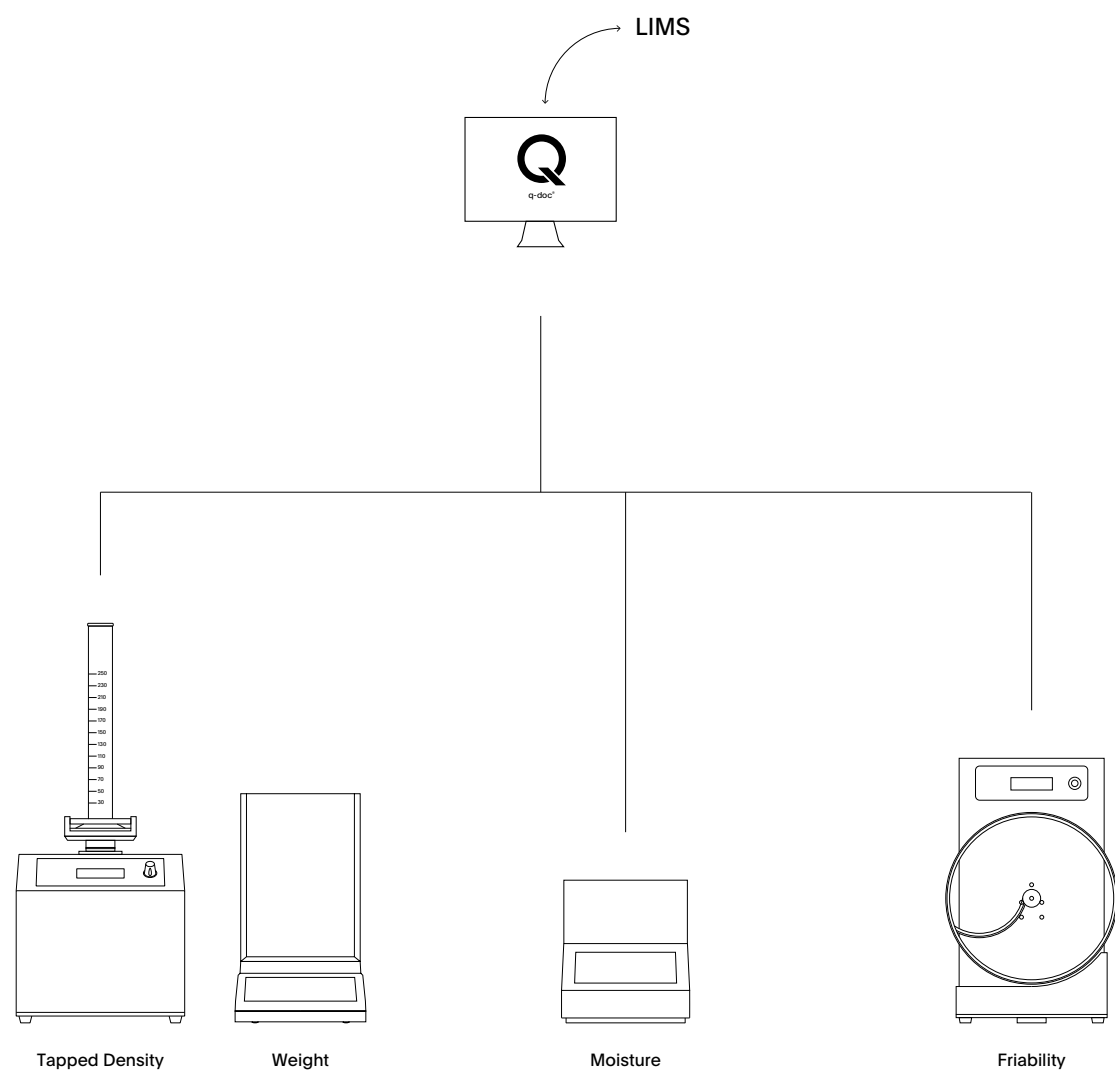
100 % compliance.

Robust in design, the TD1 fully complies with all applicable norms and standards for tapped density testing of powders – including Pharma-copeia, 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

LIMS

Tapped Density   Weight   Moisture   Friability

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.	

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