



SVM II

5-IN-1 TAPPED DENSITY TESTER

ONE INTELLIGENT DEVICE, 5 VARIATIONS

THE SVM II

The SVM II is our latest generation of tapped density tester. With unprecedented flexibility and intelligent features, it makes tapped density testing as easy and reliable as never before.

The 7" high resolution touch display with a modern user interface focuses the user on the most important task the SVM II has to fulfil - 100% USP/EP compliant tapped density testing. With the automatic calculation features of the TestAssist, the user is guided step-by-step through the testing process as quickly as possible. It also automatically calculates the Hausner Ratio and compressibility index and prints the reports after every test.

One device with 5 variations

The SVM II offers the same flexibility as its 5 predecessor models. It can test for USP method 1, 2 and 3 and can be equipped with either one or two test stations for the same method (USP 1/2) or a combination of both.

The USP 3 accessory can also be mounted at the same positions. Optional changing from one variant to another can be done by the user within minutes. This makes the SVM II the most flexible tapped density tester we ever built.

In addition to its ease of use, the SVM II is the most flexible tapped density tester we ever built. The SwitchPlate system enables 5 different versions of the SVM II with USP 1 and USP 2 method in either one or two test station configurations or a combination for USP 1 / 2. USP 3 accessory can be installed at any test station. And the best part - everything can also be upgraded at a later time point!

SVM II supports a variety of methods and norms: From USP 1, USP 2 and USP 3 to ASTM B527-15 and DIN EN ISO 787-11:1995 - with the SVM II, users are on the safe side of valid and conform tapped density testing.





Intelligent SwitchPlate System

With the innovative SwitchPlate system, the SVM II is as flexible as ever before. Available SwitchPlates:

- | USP 1 with 1 station
- | USP 1 with 2 stations
- | USP 2 with 1 station
- | USP 2 with 2 stations
- | 2 station combination with USP 1 and USP 2

USP 3 accessories can be installed at any position and with any SwitchPlate.

Modern Touch Interface with TestAssist

The SVM II is controlled by a high resolution touch display with our modern ERWEKA user interface. With its innovative TestAssist, the user is guided through the tapped density testing process from start to finish. The TestAssist automatically computes Tapped Density, Hausner Ratio and Compressibility Index - all the user has to do is read the values from the cylinder and enter them when asked. This reduces errors and delivers results as fast as possible.

SVM II is also equipped with the DirectHelp feature - giving help and guidance at all times at the touch of a button.

KEY FACTS



One or two test stations



Upgradeable at any time



Auto. calculation of Hausner Ratio & Compressibility Index



USP methods 1, 2, 3, ASTM B527-15 and DIN ISO 787-11:1995



Intuitive touch interface



SVM II SWITCHPLATES

FIVE PLATES FOR ONE TESTER

ERWEKA offers five different SwitchPlates including a license key to purchase with the SVM II. All SwitchPlates can be interchanged, if requirements change, it is possible to upgrade every SVM II with a new SwitchPlate.

The SwitchPlate system offers maximum flexibility and makes every SVM II absolutely futureproof.

AVAILABLE SWITCHPLATES:

	1 test station SwitchPlates	2 test station SwitchPlates
USP-Method 1 (Lifting height 14 +/- 2 mm)	✓	✓
USP-Method 2 (Lifting height 3 +/- 0,2 mm)	✓	✓
USP-Method 1 + 2*		✓
Info: USP 3 accessory feasible on both stations and with all plates	✓	✓



Easy SwitchPlate replacement



One base SVM II - 5 versions possible



Quick installation of the SwitchPlate

Installing a SVM II SwitchPlate is a two step process - first the user changes the plate on the SVM II by fixing it with 6 small screws. The next step is done in the configuration panel - the activation code needs to be entered, which is part of the purchase of a SwitchPlate. This activates the specific SwitchPlate in the TestAssist and report engine of the SVM II. The SVM II is delivered with a small quick-start guide, guiding users through the process.



*enables separate testing of either USP method 1 or method 2 in one single device without modification.

USP 3 TESTING WITH SVM II

INTEGRATED INTO TESTASSIST

The testing process according to USP 3 is a multi-step process using a 100 ml cylindrical stainless steel vessel with specified dimensions. During the test as described in USP <616>, the vessel is repeatedly filled by the user after being tested with the SVM II. SVM II automatically calculates the results, and if necessary, prompts the user to repeat testing steps as described in the USP chapter.

The procedure as described in USP <616> "Bulk density and tapped density of powders" under paragraph "Method III - Measurement in a vessel" is completely integrated into TestAssist, including automatic calculation.



OPTIONAL NOISE BOX FOR REDUCTION OF OPERATING NOISE

The ERWEKA noise reduction box is the perfect addition to our tapped density tester.

The noise box is made of sturdy polymer housing and is lined with a 30 mm thick, white EPE damping material. It reduces the noise of a tapped volume tester by up to 25 dB (A) from 100 to 75 dB (A).*

TECHNICAL DATA NOISE BOX:

Noise reduction*	From 100 to 75 dB (A)
Weight	25 kg
Inside dimensions (W x H x D)	350 x 630 x 392 mm
Dimensions (W x H x D)	432 x 711 x 546 mm

*Compared to open SVM tapped density tests (measured from the standard horizontal distance to the noise chamber of 0.65 m and 1.6 m from the floor)



1, 2, TEST!

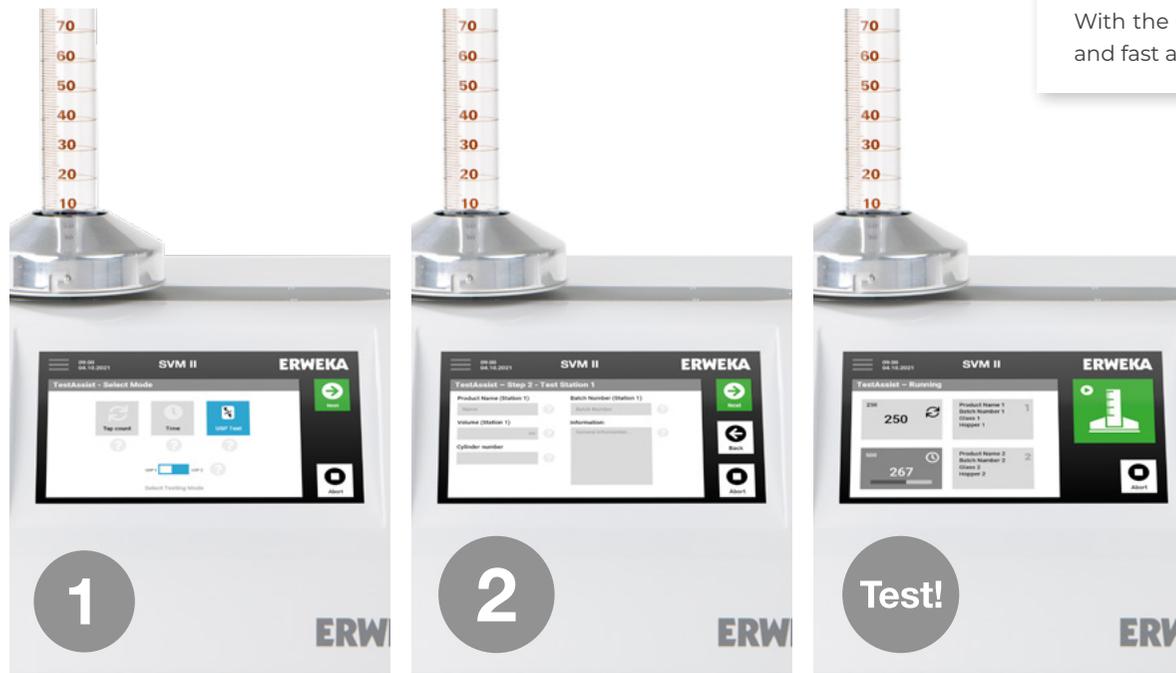
THE SVM II TESTASSIST

The touch interface of the SVM II focuses the user on the most important task to be done with the SVM II: Tapped density testing. The central part is the TestAssist, an intelligent assistant with realtime feasibility checks that provides support and guarantees the conformity of the entered parameters according to USP/EP/JP. Tapped density testing thus becomes simple and safe. But we didn't stop at TestAssist - all other functions, such as the control panel, the qualification menu or the service menu, are also designed to connect user and hardware as quickly as possible.

TestAssist - tapped density testing easier than ever!

TestAssist is a comprehensive, yet simple wizard for the quick execution of tapped density testing. The user is guided step by step through the parameterisation, whereby incorrect entries are prevented by TestAssist. As soon as the tapped density test is running, the test screen displays all important status information about the test at any time. When testing according to USP methods, TestAssist prompts the user to enter the required values. Afterwards, it then computes the results for Tapped Density, Hausner Ratio and Compressibility Index completely automatically.

With the help of the intelligent TestAssist, tapped density testing is as easy and fast as never before!



Testing in
3 simple steps



Parameterisation
within conform
ranges

REPORTS

SVM IIs' TestAssist automatically generates reports after each test. These reports can be automatically printed. The last 10 test reports can be recalled and printed out again.

DIRECT ACCESS FOR CUSTOMER SERVICE

The service menu gives the user direct access to the most important hardware functions and information of the SVM II. Serial number and firmware version can be quickly called up for service cases, and maintenance can be carried out faster and more efficiently.

DIRECTHELP AT THE TAP OF A BUTTON

The DirectHelp feature is implemented throughout all of the SVM II touch interface. At the touch of a button, the user can easily access context relevant help within milliseconds.

QUALIFICATION MADE EASY

Thanks to advanced qualification functions, qualifying the SVM II is easy. To do so, simply enter the qualification menu and follow the instructions.

TECHNICAL DATA SVM II:

Test stations	1 or 2 test stations using 5 different SwitchPlates
Supported methods	USP method 1: 300±15 taps/min; tap height 14±2mm USP method 2: 250±15 taps/min; tap height 3±0.2mm USP method 3 as described in USP <616> EP 2.9.34 Bulk density and tapped density of powders USP <1174> Powder Flow ASTM B527-15 Tap density of metal powders and compounds DIN EN ISO 787-11:1995 General test methods, pigments and fillers
Data storage	10 reports (temporarily)
Control	7" high resolution touch display
Ambient temperature during operation	+10 °C up to +30 °C
Storage & transport temp.	+5 °C up to +40 °C
Relative humidity	25-80 % non condensing
Interfaces	USB A/B, Ethernet, RS232
Export	Network export via external software (Export manager) as XML / PDF
Power supply	115/230 V; 50/60 Hz
Fuses	1 A
Protection class	I/EN 61140
Protection type	IP 21/IEC 529
Weight	17 kg
Dimensions (W x H x D)	300 x 196.5 x 326 mm

ERWEKA GmbH

Pittlerstraße 45
63225 Langen
Germany

Phone: +49 6103 92426-200

sales@erweka.com www.erweka.com



VERDER

VERDER SCIENTIFIC

ENABLING PROGRESS.

Under the roof of VERDER SCIENTIFIC we support thousands of customers worldwide in realizing the ambition we share.

As their technology partner behind the scenes, we deliver the solutions they need to make progress and to improve the everyday lives of countless people. Together, we make the world a healthier, safer and more sustainable place.

