



SVM II

5-in-1 tapped density tester



ERWEKA

part of **VERDER**
scientific

The SVM II

One intelligent device, 5 variations.

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 fulfill - 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.

In addition to its ease of use, the SVM II is the most flexible tapped density tester we ever built. The newly designed 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 method 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.



One or two test stations

100%

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



Upgradeable at any time



Intuitive touch interface

Test!

Auto. calculation of Hausner Ratio & Compressibility Index





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.

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.

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

The following SwitchPlates are available:

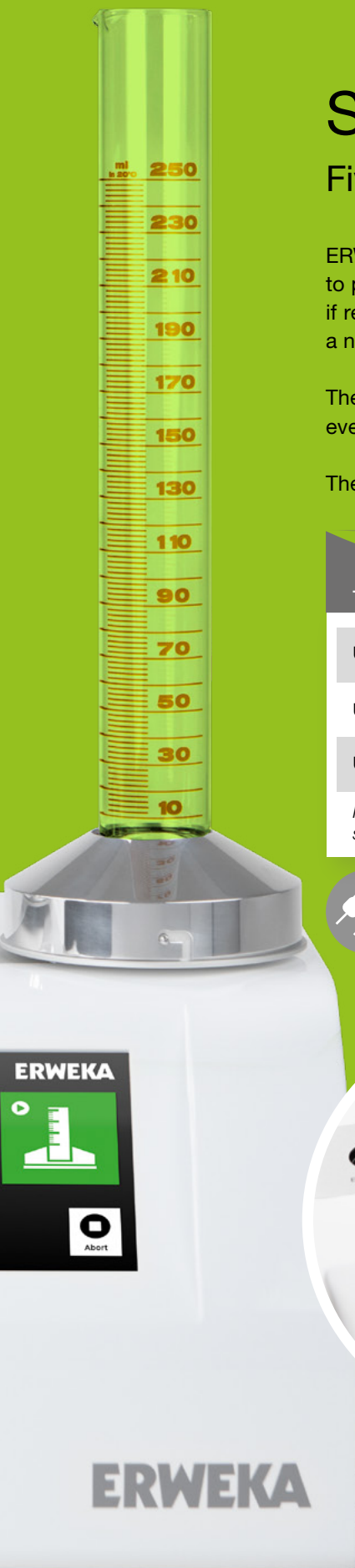
| Test method | Number of test stations | 1 test station SwitchPlates | 2 test stations SwitchPlates |
|--|-------------------------|-----------------------------|------------------------------|
| USP-Method 1 (Lifting height 14 +/- 2 mm) | | ✓ | ✓ |
| USP-Method 2 (Lifting height 3 +/- 0,2 mm) | | ✓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



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 quickstart 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 cylindric 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.

For more information visit our USP 3 application page by scanning this QR code:



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).*



Dimensions and Data

| | |
|-----------------------------|--------------------------|
| Inside height, width, depth | 761 mm x 390 mm x 497 mm |
| Height, width, depth | 841 mm x 472 mm x 594 mm |
| Weight | 25 kg |
| Noise reduction* | appr. 25 dB (A) |

*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.



Testing in 3 simple steps



Parameterisation within conform ranges

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 ever!



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.



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.

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.



Qualification made easy

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

Technical data

| | SVM II |
|--------------------------------------|---|
| Height, width, depth | 196.5 mm / 300 mm / 326 mm |
| Weight | 17 kg |
| Voltage | 115/230 V; 50/60 Hz |
| Fuses | 1 A |
| Protection class | I/EN 61140 |
| Protection type | IP 21/IEC 529 |
| 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) |
| Interfaces | USB A/B, Ethernet, RS232 |
| Export | Network export via external software (Export manager) as XML / PDF |
| Ambient temperature during operation | +10 °C up to +30 °C |
| Storage and transport temperature | +5 °C up to +40 °C |
| Relative humidity | 25-80 % non condensing |

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