

SQC14

Statistical quality control

For monitoring, verifying and optimizing filling processes to comply with the economic and legal requirements of the following industries:

- Food
- Cosmetics
- Pharmaceuticals
- Chemicals



Filling processes

Documented in black and white

METTLER TOLEDO

SQC14 – The good feeling of always complying

- Pharmacopoeia or prepackaged goods regulations
- Extremely easy to operate
- A wide range of METTLER TOLEDO balances can be connected

Pharmacopoeia or average weight regulations

As a filler of prepackaged goods you're not allowed to underfill but also don't want to give anything away. As a manufacturer of pharmaceutical products you work according to GMP. You're not allowed to underfill or overfill. Uniformity is the law! SQC14 is a tool that gives you optimal support in both situations.

Extremely easy to operate

No matter whether you are configuring the compact SQC system, creating a new article or adjusting a setting, your SQC14 is ready for the next random sample in an instant. As soon as you press the tare key of the balance, SQC14 starts the random sample. It couldn't be easier!

Complete information for decisions

You receive complete printed information about the position, scatter and trend of your random samples and can see at a glance whether the prescribed tolerances are being met without wasting material.

Documented in black and white

With regularly printed statistics, you can always prove that you have the filling quantities of your packages under control. Thanks to unique identification of the product, as well as precise information on the measured

time periods and balance used, the statistics printouts comply with modern quality management and fulfill the requirements of food, cosmetics, chemical, and pharmaceutical industries (FPVO, GxP).

SQC14 product characteristics/concept:

- Average weight application integrated in strip printer
- Combined with balance a compact average weight system
- Basic information shown on balance display
- Numeric and alphanumeric input from membrane keypad of printer

Number of articles: – 16 or 60
– With up to 19 parameters

Tolerance systems: – EU/FPVO
– EU pharmacopoeia
– 3 free tolerance systems
– Separate mean-value tolerance (TM)

Units: – mg, g, kg, oz, lb, GN, dwt, ml, l, fz

Random samples: – Mean value tare
– Single tare (preweighing/differential weighing)
– Additive weighing
– Automatic feeding with LV11

Statistics: – 2 per article
– Period freely selectable

Reports: – Random sample printouts
– Statistical printouts

Configurable: – Time/date, balance identification, tolerances, tolerance violations, histogram, class table

Safety: – Control of inspection, measuring and test equipment documents the fault-free functioning of connected balances with SQC14
– Prints reports from other applications *)
– Password protection for system configuration

Interfaces: 1 RS232, 2 LocalCan; **Cable:** 1 RS232 supplied as standard; **Dot-matrix printer:** 24 characters/line, normal paper; **Power supply:** 115/230V (+15%/-10%);

Power consumption: 10VA; **Weight:** 1.6kg; **Dimensions:** 150 x 190 x 80mm (WxDxH)

*) Not possible on all balances





--- STATISTICS 1 --- 0-
 Start 28.11.05 14:00
 End 28.11.05 14:26
 ID BATH CARE
 No. 80777.9.7060.01

METTLER TOLEDO Balance
 PB3002-S Standard 3100.9
 SNR: 1121012483

Nominal 50.00 ml
 Tare 16.00 g
 Density 0.9400 g/ml
 Tol.sys. 2: EU +/-
 t2- 18.00% 9.000 ml
 t1- 9.00% 4.500 ml
 t1+ 9.00% 4.500 ml
 t2+ 18.00% 9.000 ml
 Max. n 5

Sample# 12
 n 60
 \bar{x} 101.28% 50.639 ml
 s 5.67% 2.870 ml
 Min 88.49% 44.24 ml
 Max 123.45% 61.72 ml
 R 34.96% 17.48 ml
 <T2- 0 0.00 %
 <T1- 1 1.67 %
 >T1+ 4 6.67 %
 >T2+ 1 1.67 %
 28.11.05 14:35



<T2 0 0.00 %
 <T1 0 0.00 %
 <T1 1 1.67 %
 -4 2 3.33 %
 -3 4 6.67 %
 -2 7 11.67 %
 -1 11 18.33 %
 +1 14 23.33 %
 +2 8 13.33 %
 +3 6 10.00 %
 +4 3 5.00 %
 >T1 2 3.33 %
 >T1 1 1.67 %
 >T2 1 1.67 %

Act./Sign. *[Signature]*

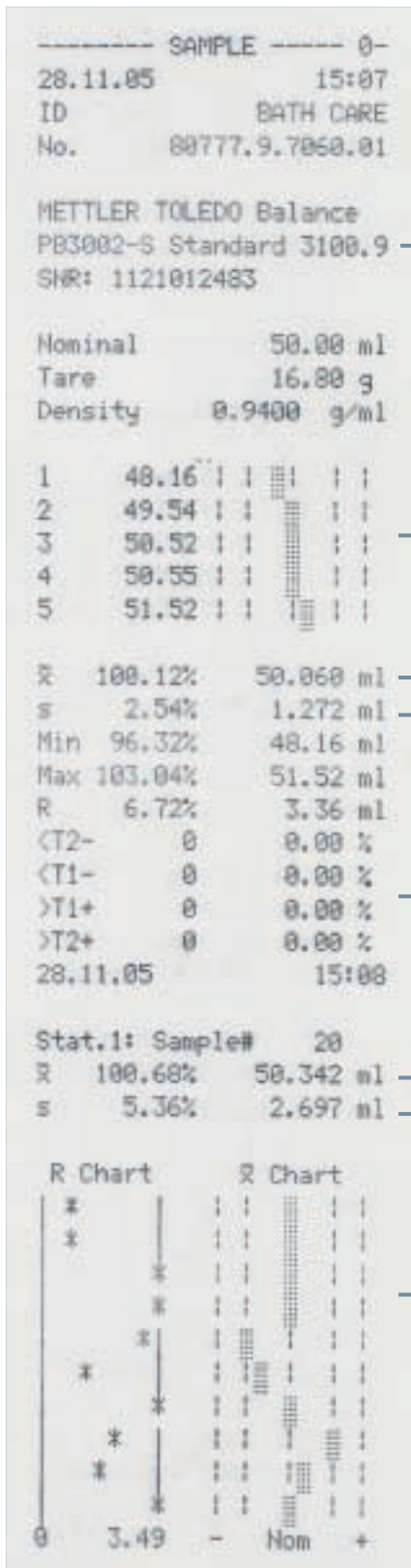
Connectable balances from METTLER TOLEDO:

- XS/XP analytical and precision balances
- AB-S and PB-S balances
- AL and PL balances
- AX/MX and AG/PG/PG-S/SG balances; AB/PB/SB balances with software V1.20 and higher; BBA/BBK422/425, IND425
- Viper SW with software V4.58 and higher

Options/accessories:

- LV11 automatic feeder
- Visual or acoustic warning of tolerance violations with LC-I/O process interface
- Validation manuals
- LocalCan cable 229115





Balance identification

Individual values with tolerance position (individual value trace)

Random sample mean value
 Measure of scatter of random sample (standard deviation)

Tolerance violations

Mean value of all random samples in the statistic
 Standard deviation of all random samples in the statistic

Position of difference and mean value of the last 10 random samples

www.mt.com

For more information

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Service XXL

- Integral service concept
- Individually assembled service packages
- Priority service status
- Calibration certificate issued on site
- Minimum weight defined with MinWeigh

Quality certification

Development, production and auditing in accordance with ISO 9001. Environmental management system in accordance with ISO 14001.

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This label is your guarantee that our products conform to the latest guidelines.