

IT6000E *SQC*

Weighing Terminal for Statistical Quality Control In Compliance with the Regulations for Prepackaged Goods



IT6000E *SQC* is a checkweighing terminal for capture and evaluation of samples in compliance with the regulations for statistical quality checks.

The evaluation method can be selected, either compliant to EC regulations for prepackaged goods or pharmacopeia or with freely chosen limits. Filling quantities can be checked either by weight or by volume.

IT6000E *SQC* supports connection of one analog or digital scale base of any type.

High resolution and fast signal processing of the **IT6000E *SQC*** terminal permit precise capturing of samples and fast evaluation.

Checkweighing results of samples and batch are indicated with colored marking on the TFT display. Operator prompting with clearly structured onscreen menus ensures fast and error-free operation and minimum training requirements.

Essential features:

- Product file for up to 250 products
- 3 different check methods: individual, additive or 2-phase with emptying the test object
- Entry of tare weight or tare weighings with calculation of mean value
- A surcharge can be specified for products whose filling quantity may change after checking
- Entry of up to 8 additional acceptance criteria (eg 'Label ok?')
- Simultaneous evaluation of samples for up to 50 production lines, also for identical products
- Entry of two additional IDs with assignment to sample (eg 'Operator') or batch (eg 'Order')
- Output of sample and/or batch results on printer, host system and/or saving to file
- Graphical view of distribution of measuring results (Gaussian distribution) over one or several samples
- Ring buffer for statistics with 2500 entries, eg for the last 100 days with 25 samples per day.

Rapid and precise checks:

- Fast signal processing with more than 200 updates / sec
- High W&M approved resolution of 6000d, (digital platforms up to 32,000d)
- Automatic capturing of weight and tolerance zone when scale is settled
- Automatic allocation of tolerance zones according to selected check method (prepackaged goods / pharmacopeia)
- Tare weighing or calculation of average tare weight.

Simple and secure operation:

- Operator is guided on a high-contrast color TFT display
- Data entry is via numeric tactile acid-resistant keyboard with multiple key assignment for alpha characters or optional full-size PC keyboard.

Capturing of all relevant data:

- Comprehensive statistics functions with mean value, standard deviation, number of weighings, etc., simultaneous processing of up to 50 batches
- Evaluation by product and/or batch
- Calculation of correction factor for adjustment of feeding device
- Output of check results on printer or PC, print format configurable
- Option to store results in internal memory or on USB stick.

Security:

- Data is retained in the event of power loss
- Password protection for all data
- Battery-backed realtime clock
- Cleartext display of error messages.

Weighing electronics:

- Integrated signal amplifier for connection of up to 16 strain gauge loadcells in 4- or 6-wire mode
- Calibration as single or multiple-range and as single or multi-interval scale
- Option to connect Sartorius IS platforms or Mettler-Toledo TBrick platforms.

Ethernet interface (option: WLAN):

Integrated Ethernet or WLAN interface, access to internal result file possible via SFTP.

Integrated USB interface (option):

To connect printer, scanner, PC keyboard or to store check results on USB stick.

High ingress protection IP65

Electrical connections:

115 (-15%) – 240 (+10%) VAC;
50/60 Hz, option: 12–30VDC,
power consumption max. 20 VA.

Operating temperature:

-10°C to +40°C, max. 95% relative humidity, non-condensing.

Accessories:

- Column for floor mounting
- Protocol printer
- Protective dust/splash cover.

Options:

Connection to PC program PC *SQC* for the centralized management of check results and product data.

Typical check cycle (check method 'Individual'):

- Choose production line
- For new product choose one from product file
- Enter batch data
- Capture weight when threshold is exceeded and start checkweighing
- Assign captured weight to tolerance zone, enter in statistics file
- Capture next sample until complete
- Display and optionally print result of sample
- On end of batch display and optionally print result of batch
- Next cycle...

Example for protocol print

```
Line No.15 Product-No. 125 Product: .....Crystal Sugar Fine SW. 1.00
Date/Time: 26.10.00 / 15:45 Batch 120009 Sample 1
Ref.Weight 500.0 g Number .....10 Max: 504.0 g
Tare Weight 15.0 g -TU1: .....1 Min: 484.0 g
TU2: 470.0 g Mean Val. 499.7 g -TO1: .....9
TU1: 485.0 g Deviation. 5.533 g -TO2: .....0
TO1: 515.0 g +TO2: .....0
TO2: 530.0 g TU1%: .....10
Result: > 2,5% TU1
```

Construction:

Desk/wall version



- Stainless steel housing, IP65
- for desk-top or wall-mount installation or with optional column for floor mounting
- Dimension WxHxD: 330x239x134mm

Panel-mount version



- Stainless steel housing, IP65
- panel-mount installation
- Dimension WxHxD: 285x224x69mm
- Cut-out in panel: 268x207mm

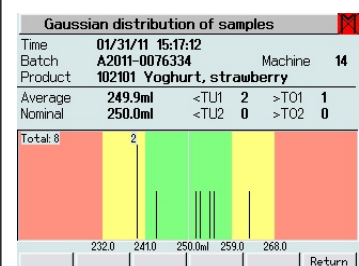
Display / operation:

Result of sample weighing

W1	Max 1500 g	esd= 0.5 g
	Min 10.0 g	
0.0 g		
Tare	0.0 g	
Batch	A2011-0076334	Machine 14
Product	102101 Sour cream	
Last Chk.	01/31/11 14:34:59	Checks 8
Sample	1	<TU1 0 >TO1 1
Nominal	250.0ml	Density 1.02145g/ml
Average	250.1ml	<TU2 0 >TO2 0
Dev.	5.016	
Result	OK	
Sample Details Tare Batches Print -->		

Display of sample data with colored marking of result

Batch result



Display of Gaussian distribution of a product over several samples

Directives: 2009/23/EC, 2004/108/EC, 2006/95/EC, 2004/22/EC

EC approval as non-automatic weighing instrument

ETL certified in compliance with UL 60950-1 and CSA C22.2 No. 60950-1

Standards: EN 45501, OIML R76-1, EN 61000-6-2, EN 61000-6-3, NAMUR NE21, EN 60950, OIML R51, OIML R61, OIML R107

EMI compliance with FCC Part 15