

ZEROBALANCER



Patent Granted
No. 4049388 (Japan, December 7, 2007)

Patent Pending
JP2007-June 15
JP2007-August 10
JP2007-September 4
PCT/JP/070261 (October 17, 2007)

Ultramicro powder weighing apparatus Zero balancer

JCSS Proofreading certificate · SAS Periodical calibration service correspondence model

Microbalancer

Accuracy : $\pm 200 \mu\text{g}$ / $\pm 500 \mu\text{g}$

Millibalancer

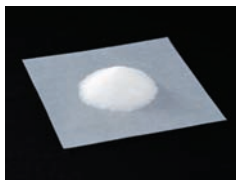
Accuracy : $\pm 5\text{mg}$ / $\pm 20\text{mg}$ / $\pm 200\text{mg}$

Application:
Fully-automated accurate weighing system
for powder materials



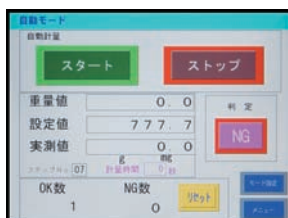
Fully-automated weighing system with electronic balance!

Fully-automated weighing system for milligram accuracy replaced by manual method



The system achieves milligram accuracy responding to customer's needs. The most advanced technology in the powder weighing apparatus industry. The accuracy of feeding with this apparatus outweighs the accuracy of the manual operation of electronic balance.

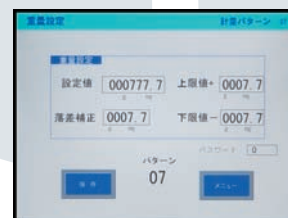
Feeding accuracy: 1 ~ 1/1.2 million



Automatic mode on screen



Menu selecting mode on screen



Weight setting mode on screen



Zerobalancer



Ultramicro powder weighing apparatus

Specifications: Electronic balance (mount type)

■ Zerobalancer: For fluid, adhesive, agglutinative powder

| | Millibalancer | | | Microbalancer | | |
|-------|---------------|-----------|----------|---------------|--------------|-------------|
| Model | J1-100M-03 | J1-10M-03 | J1-1M-03 | J1-100μ-5-03 | J1-100μ-2-03 | J1-5μ-10-03 |

● Common Specifications for fluid, adhesive, agglutinative powder

| | Millibalancer | | | Microbalancer | | |
|------------------------|--|-----------|-----------|---------------------------------|-----------|-----------------|
| Weighing accuracy | ± 200mg | ± 20mg | ± 5mg | ± 500 μg | ± 200 μg | ± 50 μg |
| Weighing formula | Feedback control by the signal of electronic balance | | | | | |
| Weighing time ※1 | 10sec/1g | 15sec/1g | 20sec/1g | 40sec/1g | 45sec/1g | 60sec/1g |
| Container Volume | 250cc | | | | | |
| The part of material | Hopper quality of the material : Polycarbonate ※2 | | | Other parts SUS-304 | | |
| Weighing capacity | 2,200g | 620g | 320g | 240g | 230g | 2,000mg |
| Readability | 100mg | 10mg | 1mg | 100 μg | 10 μg | 5 μg |
| Response time | 1sec | 1sec | 1.5sec | 2sec | 8sec | 10sec |
| Control box | Color touch-panel operation/Digital control/With a balancer record | | | | | |
| Body dimensions | W214 x D342 x H90 mm | | | W214 x D342 x H340 mm | | |
| Control box dimensions | W270 x D500 x H200 mm | | | | | |
| Windproof case | Option | | | Windshield case with slide door | | |
| Price | 3,100,000 | 3,380,000 | 3,760,000 | 4,530,000 | 5,410,000 | Price quotation |

※1 【For fluid powder】 Based on the data of granulated Cellulose (JSPI).

【For adhesive, agglutinative powder】 Based on the data of magnesium stearate (JSPI).

※2 Please ask for applying other kinds of materials.

※ Any changes to the Specification for the special application shall be estimated as a special model.

※ Please ask when another range of accuracy is required.

Balancer record on screen

| | A | B | C | D | E | F | G |
|----|--------|---------------|-------|----|-------|------|---|
| 1 | | | | | | | |
| 2 | ロットNo. | FDA-P-07-3692 | 設定値 | mg | 300.0 | | |
| 3 | 日付 | 2006年11月11日 | 上限値 | mg | 1.0 | | |
| 4 | 品名 | ステアリン酸マグネシウム | 下限値 | mg | 1.0 | | |
| 5 | 管理者 | 浜崎 ゆみ | 落差補正 | mg | 0.6 | | |
| 6 | | | | | | | |
| 7 | 計量No. | 時間 | 重量値 | mg | 判定 | 計量時間 | |
| 8 | 1 | 11:51:21 | 300.8 | | O.K. | 21 | |
| 9 | 2 | 11:52:19 | 301.0 | | O.K. | 22 | |
| 10 | 3 | 11:53:11 | 301.1 | | N.G. | 20 | |
| 11 | 4 | 11:54:09 | 300.2 | | O.K. | 24 | |
| 12 | 5 | 11:55:22 | 300.7 | | O.K. | 23 | |
| 13 | 6 | 11:56:10 | 298.9 | | N.G. | 26 | |
| 14 | 7 | 11:57:01 | 300.1 | | O.K. | 24 | |
| 15 | 8 | 11:57:53 | 300.4 | | O.K. | 25 | |
| 16 | 9 | 11:58:39 | 300.8 | | O.K. | 25 | |

The data of balancer record can be up leaded directly to Excel

Recommended operating conditions

Computer IBM Compatibel
 Resolution: 800 x 600 pixel or up
 CPU: Pentium 500MHz or higher
 RS-232 Port is attached
 CD Drive is attached

OS Japanese version Microsoft® Windows® XP

Option

(1) Enlarged hopper for a use of medical paper



(2) External Switch & Display



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