The MEASURE

SCIENTECH

OK

FUNCTION

MODE

ON/OFF

510 x .0001g

ISO 9000 REGISTERED

of *Confidence*

SERIES *9000*

Computer generated finite element analysis is the foundation of the design for the new Series 9000 balance line by Scientech. Utilizing this advanced technology in tandem with computer aided design, Scientech's engineers were able to reduce the number of parts, decrease weight, and increase ruggedness while enhancing overall performance. The attractive quality of this new design is demonstrated by the CE mark of conformity along with Scientech's ISO 9000 registration. For those customers not needing the CE mark, non-CE certified balances are available.

Every Series 9000 model is a precise weighing device incorporating an impressive list of standard features. Although capable of weighing heavyweight loads, these exemplary performers were designed to indicate featherweight readabilities such as:

The heavyweight SA 510 (510g) boasts an ultra-featherweight readability of 0.1mg.

► **SA Series Analytical Balances**
with readabilities of 0.0001g
► **SP Series Precision Balances**
with readabilities of 0.001g
► **SL Series Laboratory Balances**
with readabilities of 0.01g
► **SG Series General Balances**
with readabilities of 0.1g

All Series 9000 balances are microprocessor controlled with Scientech's exclusive real time temperature compensation algorithm. This revolutionary internal software yields accurate, reproducible results without the need to recalibrate your balance as the ambient temperature varies.

SA Series

Analytical weighing demands a high standard of accuracy. The SA Series delivers. Weights from 80 to 510 grams with 0.1mg resolutions are displayed promptly, clearly and reliably. The SA 510 reigns over this analytical series as the only 510 gram balance with a 0.1mg readability. This makes the SA 510 the unrivaled heavyweight of all analyticals. The SA 80 is the workhorse of the SA realm. This handy performer is perfect for the value conscious user who wants ultra-featherweight readability for a lightweight price.

An outstanding feature which can be added to any SA model is the optional motor driven, built-in, calibration weight (9000-INT). This handy accessory gives you the ability to easily recalibrate your SA analytical balance as often as you wish without having to use an external weight. In combination with our unique real time temperature compensation software, this quality feature assures you of dependable, accurate results.

SP Series

Pure precision is the title which defines this high flying formation. Able to cradle weights ranging from 150 to 1500 grams with a featherweight resolution of 1mg, this high performance series speedily displays results on an easy to use control panel.

The first and only 1500 gram balance with a 1mg readability, the SP 1500 is the unequaled heavyweight in this division. Although the SP 150 is the lightweight model in this ensemble, it also boasts an inspiring list of standard features including a circular glass windscreen, as do all SP models.

SL Series

Ranging from modest to formidable birds of prey, the SL models have an impressive wing span of 400 to 6000 grams and still perceive the touch of a single feather down to 0.01g. With two different sized weighing platforms, these laboratory balances can also be configured to handle your specific weighing environment.
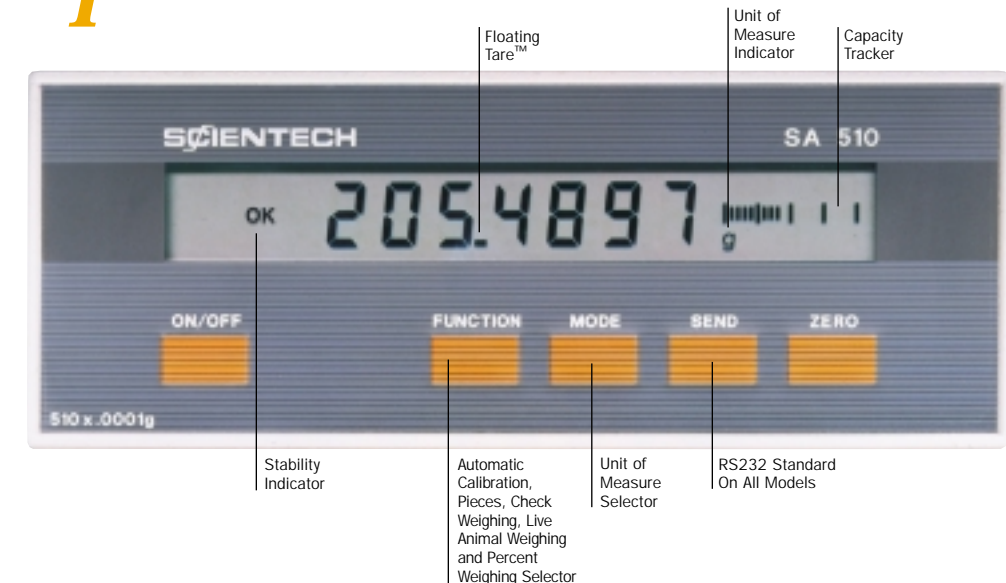
SG Series

The SG Series is a high capacity family of balances sporting flat, rectangular pans as standard equipment. Easily handling up to 12,000 grams with a feather touch of 0.1g, this species is an accurate, feature-rich line perfect for any high capacity application.

SERIES 9000 STANDARD FEATURES

► GLP/GMP/ISO compatible
► Automatic calibration programs
► RS232 data interface with user selectable baud rates up to 19,200
► Automatic zero tracking
► Automatic system check-out sequencing
► Built-in security bracket
► Stability indicator
► Live animal weighing
► Percent weighing
► Capacity tracker
► Below balance weighing
► Microprocessor control
► Exclusive real time temperature compensation software
► Parts counting
► Check weighing
► Selectable filtering
► Multiple units of measure
► Floating Tare™ (dual range models only)
► Autoranging (dual range models only)
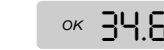
Special FEATURES

Capacity Tracker
This dynamic graphical display automatically depicts the used and unused portions of your weighing range. The tracker is indispensable in taring out container weight and then weighing several components sequentially. You always know how much capacity remains.

Stability Indicator
The balance tells you when the reading is valid, insuring reliable results. Stability sensitivity is user selectable which allows you to customize your balance setup. You may disable the indicator at any time.

Check Weighing
Here is Scientech's answer to a go/no-go weight gauge. The balance tells if your sample weight is too high, too low, or OK. Interpretive error is eliminated. This application is ideal for JIT environments where quality of each sample must be assured.

Floating Tare™
(Dual range models only.)
Dual range balances offer you two balances in one. Used hand-in-hand with autoranging, Floating Tare™ provides low range readability throughout the entire high range capacity of the balance. Access Floating Tare™ with the press of a button and you have ten times more resolution anywhere within the high range domain.

Percent Weighing
By quickly selecting the CAL mode, you are able to weigh a sample in percent in order to easily determine percent moisture loss, percent solids, or compounding by percent.

Parts Counting
You can even use a Scientech balance for piece counting. Every model empowers you to count very small to large components quickly and accurately. The minimum fixed sample number is ten with a user selectable larger sample size feature at your fingertips.

Vibration Filters
This feature authorizes you to select a filter setting which is best suited to your task. If your surroundings are vibration-free, set the filtering to low which yields results in the fastest possible time. In more adverse conditions, select either the normal or high filter parameter. These selections will insure reliable readings during your different weighing applications.

Units of Measure
These multifunctional balances present a choice of five different standard units of measure: grams (g), carats (ct), ounces (oz), troy ounces (ozt) and pennyweight (dwt). Just push the mode button to select your desired unit of measure. Also available as an option is a custom weight register which allows any unit of measure you wish.

Live Animal Weighing
Weighing using the time averaging mode is ideal for live animal or severe environment weighing. This feature also includes a reset function which allows you to arrive at the final weight reading in seconds rather than minutes with just the push of a button.

SERIES *Specifications*

MODEL		SA 80	SA 120	SA 210	SA 310	SA 410	SA 510	SA 210D	SA 525D	SP 150	SP 250
WEIGHING MODE		Single	Single	Single	Single	Single	Single	Dual	Dual	Single	Single
CAPACITY/RANGE	g	80	120	210	310	410	510	100/200	250/500	150	250
READABILITY	g	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001/0.001	0.0001/0.001	0.001	0.001
REPEATABILITY (std dev)	g	0.0001	0.0001	0.0001	0.00015	0.00015	0.0002	0.0001/0.0005	0.0002/0.0005	0.001	0.001
LINEARITY	±g	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002/0.0005	0.0002/0.0005	0.0015	0.0015
STABILIZATION TIME	s	~3	~3	~3	~5	~5	~5	~3	~5	~3	~3
PAN SIZE	in	Circular 3.5 diameter								Circular 4.5 diameter	
WINDSCREEN	in	7.5W x 8.25D x 9.5H								Circular 6 diameter x 3.25H	
BALANCE HOUSING	in	7.5W x 11.25D x 3.25H								7.5W x 11.25D x 3.25H	

MODEL		SP 350	SP 500	SP 1000	SP 1500	SP 404D	SP 510D	SP 2050D	SL 400	SL 600	SL 1000
WEIGHING MODE		Single	Single	Single	Single	Dual	Dual	Dual	Single	Single	Single
CAPACITY/RANGE	g	350	500	1000	1500	40/400	100/500	500/2000	400	600	1000
READABILITY	g	0.001	0.001	0.001	0.001	0.001/0.01	0.001/0.01	0.001/0.01	0.01	0.01	0.01
REPEATABILITY (std dev)	g	0.001	0.001	0.001	0.001	0.001/0.005	0.001/0.005	0.001/0.005	0.01	0.01	0.01
LINEARITY	±g	0.0015	0.0015	0.0015	0.0015	0.0015/0.005	0.0015/0.005	0.0015/0.005	0.015	0.015	0.015
STABILIZATION TIME	s	~3	~3	~3	~3	~3	~3	~5	~3	~3	~3
PAN SIZE	in	Circular 4.5 diameter							Circular 4.5 diameter		
WINDSCREEN	in	Circular 6 diameter x 3.25H							Optional		
BALANCE HOUSING	in	7.5W x 11.25D x 3.25H							7.5W x 11.25D x 3.25H		

MODEL		SL 2000	SL 3000	SL 5000	SL 6000	SL 3100D	SL 5200D	SG 3000	SG 5000	SG 8000	SG 12000
WEIGHING MODE		Single	Single	Single	Single	Dual	Dual	Single	Single	Single	Single
CAPACITY/RANGE	g	2000	3000	5000	6000	1000/3000	2000/5000	3000	5000	8000	12000
READABILITY	g	0.01	0.01	0.01	0.01	0.01/0.1	0.01/0.1	0.1	0.1	0.1	0.1
REPEATABILITY (std dev)	g	0.01	0.01	0.01	0.01	0.01/0.05	0.01/0.05	0.1	0.1	0.1	0.1
LINEARITY	±g	0.015	0.015	0.015	0.015	0.015/0.05	0.015/0.05	0.1	0.1	0.15	0.15
STABILIZATION TIME	s	~3	~3	~3	~3	~3	~3	~3	~3	~3	~3
PAN SIZE	in		Circular 6.5 diameter					Rectangular 7.5W x 8D			
WINDSCREEN	in		Optional					Not Available	Not Available	Not Available	Not Available
BALANCE HOUSING	in		7.5W x 11.25D x 3.25H					7.5W x 11.25D x 3.25H			

Optional ACCESSORIES

GLP/GMP/ISO Compatible

All Scientech balances are GLP/GMP/ISO compatible. Either using a computer or Scientech's optional data input keyboard and one of our small, optional RS232 printers, you may print a hardcopy of either the GLP/GMP Compliance Report and/or a Balance Test for ISO calibration compliance anytime you desire.

Data Input Keyboard

The data input keyboard greatly increases the flexibility of the standard balance. This accessory includes the following application programs with 50 user programmable storage registers and a calendar/time clock:

- ► Statistics
- ► Weight averaging
- ► Weight conversions
- ► Infinite units of measure
- ► Severe environment weighing
- ► Parts counting
- ► % Weighing
- ► % Solids
- ► % Moisture loss
- ► % Compounding

Printers

These small printers utilize the standard RS232 data interface which is in each Series 9000 model. Both thermal and dot matrix models are available. Each printer includes the interconnecting cable and is ideal for recording your reading for later review.

Custom Weight Register

This factory installed option allows you to weigh in any unit of measure you desire. Perfect use of this register is to weigh in milligrams or pounds instead of grams. It is also ideal for results in basis weight, any weight per unit area measurement, or even dollars.

Other accessories include: optional remote weighing, NIST traceable calibration weights, hangers for below balance weighing, spill covers, weighing bowls, rectangular pans, and remote send/tare foot switch.

Internal Calibration Weight

Available for any SA model is the 9000-INT automatic, motor driven, built-in, calibration weight. This appealing accessory allows you to quickly and easily recalibrate your SA analytical balance as often as you wish without having to use an external calibration weight.

Windscreens

Two windscreens are available for Scientech balances:

- ► 9.5" high analytical glass windscreen with 3 sliding glass doors
- ► circular glass windscreen with stainless steel cover

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