SCIENTECH®

SERIES 10K

The MEASURE *of* Confidence

SA SERIES
SUPREME
Accuracy

SA 210

482.5641

SP SERIES
PURE
Precision

SP 1500

152638

SL SERIES

Extensive **RANGE**

SG SERIES

HIGH *Capacity*

SERIES 10K

This new and improved Series incorporates Scientech's unique and unequalled displacement detector, which is the heart of our state of the art, self-adjusting digital servo. The result is a ten-fold increase in weighing performance while maintaining our proven, simple, easy to use, operator interface. The attractive quality of this new design is demonstrated by the CE mark of conformity along with Scientech's ISO 9000 registration.

Every Series 10 K 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:

► **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 10 K 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 first 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.

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

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.

ISO 9000 REGISTERED

Special FEATURES

SCIENTECH SA 510

205.4897 g

ON/OFF   FUNCTION   MODE   SEND   ZERO

510 x .0001g

Floating Tare™
Unit of Measure Indicator
Capacity Tracker
Stability Indicator
Automatic Calibration, Pieces, Check Weighing, Live Animal Weighing and Percent Weighing Selector
Unit of Measure Selector
RS232 Standard On All Models

Capacity Tracker

`36 g`

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

`OK 34.6`

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

`HI OK LO 1.28`

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

`CAL 94.52`

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

`PCS 57`

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

`OK F.1 H1`

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

`T 116.7`

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 PDA software 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.

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

PDA

Our unique PDA software package, including a PDA, gives you an instant plug and play remote controller and remote display for any Series 10K model. This handy accessory includes the following application programs:

► Statistics
► Weight averaging
► Weight conversions
► Infinite number of units of measure
► Calendar/time clock
► Print buffer and file transfer
► % Weighing
► % Solids
► % Moisture loss
► % Compounding

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.

Printers

These small printers utilize the standard RS232 data interface which is in each Series 10K model. Both thermal and dot matrix models are available. Each printer includes 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.

Anti-Vibration Table

Ideal for high vibration environments, this small, compact, vibration plate was designed to fit any Scientech balance or scale.

Other accessories include:

Optional remote weighing, NIST traceable calibration weights, hangers for below balance weighing, spill covers, weighing bowls, rectangular pans, and dust covers.

SCIENTECH

1-800-525-0522

5649 ARAPAHOE AVENUE, BOULDER, COLORADO 80303
PHONE: (303) 444-1361   FAX: (303) 444-9229
EMAIL: inst@scientech-inc.com   WEB SITE: http://www.scientech-inc.com

An ISO 9000 Registered Company

ISO 9000 REGISTERED

CE