



# Signum® Complete Scales

## High-resolution Models - SIWA | SIWS Series



- Signum Advanced Models (SIWA):  
Mechatronic Weighing System
- Signum Supreme Models (SIWS):  
Monolithic Weighing System
- Resolutions of 60,000 d to 350,000 d
- Includes built-in motorized calibration weight
- Choice of various application levels
- The slim-line design of the adjustable display enables flexible, ergonomic placement
- Optional IP65 protection for washdown applications!

### General Specifications

#### Power supply (built-in)

100-240 V AC (-15%/+10%), 50-60 HZ,  
up to 17w/23VA

#### Material Housing Base Frame

Aluminum die-casting painted with highly  
resistant industrial paint

#### Dimensions Load plate

All models have a square load pan:  
180x180mm (7.1"x7.1")  
The 0.6kg/1mg version has a round pan:  
Ø 115 mm (Ø 4.5")

#### Humidity

85% relative (non-condensing) up to 31°C;  
50% relative 40°C

#### Use at a height above sea level

Up to 2,000 m (6,500 ft.); indoors

#### Measuring technology

SIWS: Monolithic weighing system with  
integrated A/D converter  
SIWA: Strain gauge technology

#### Max. resolution

Depends on model: 1 x 4,000,000 d

#### IP protection rating

IP43 /IP65 Optional

#### Interference

Acc. to EN 61326-1 Class B  
(IEC 61326-1)

#### Electrical safety

Acc. to EN 61010-1 (IEC 61010-1)

#### Interference resistance

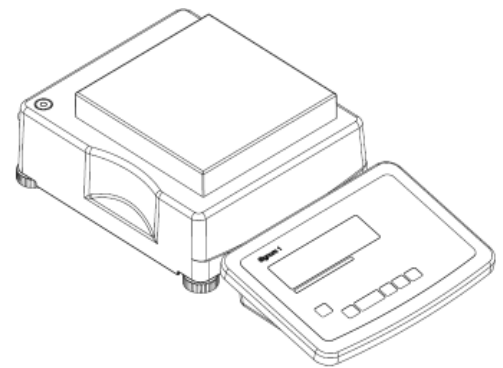
Acc. to EN 61326-1,  
industrial areas (IEC 61326-1)

#### Net weight

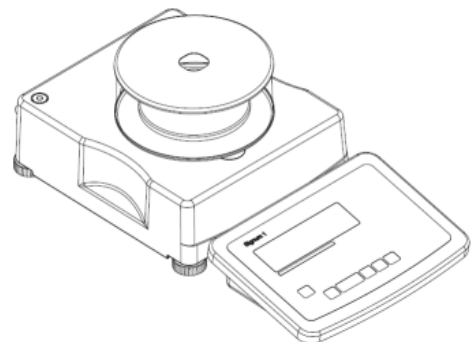
6.8 kg (15 lbs.)

#### Ambient temperature

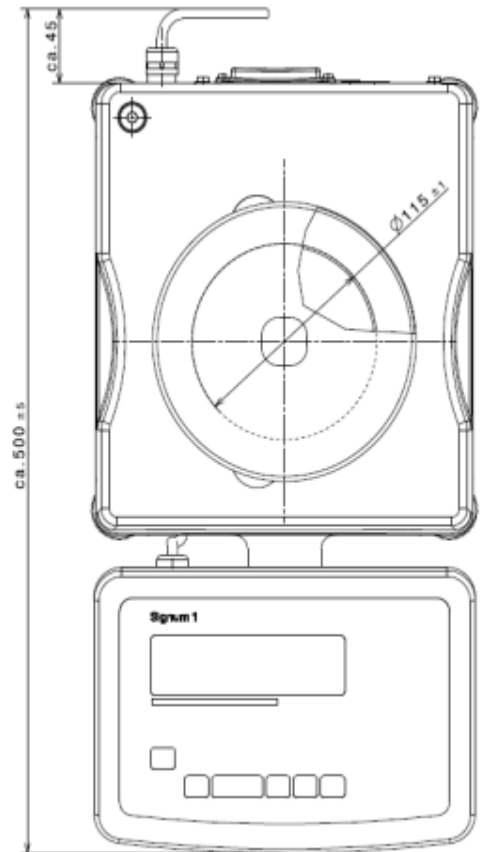
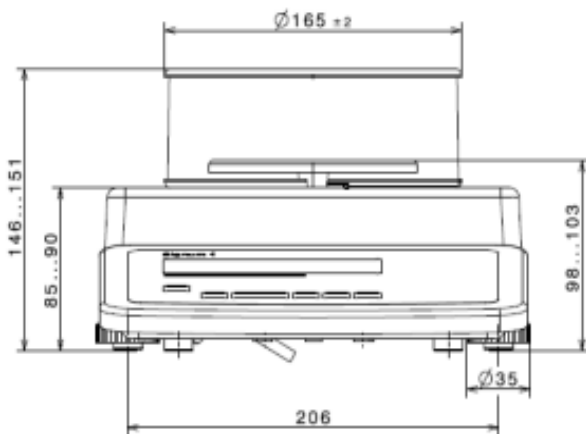
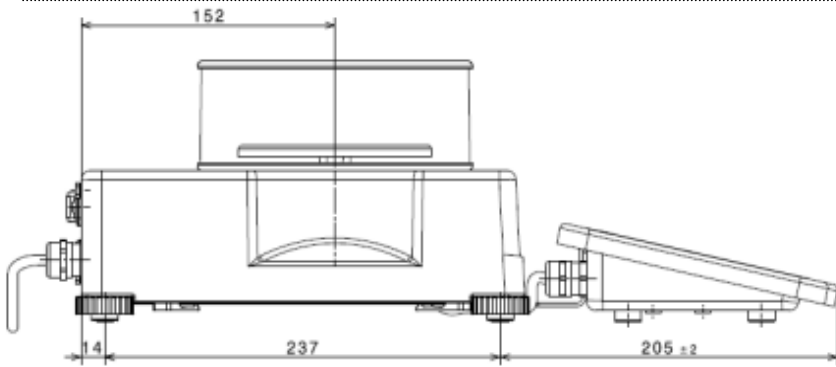
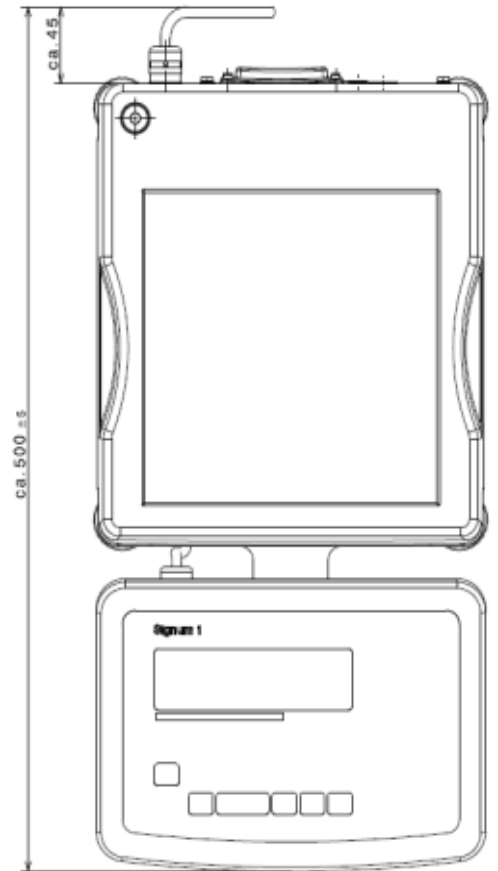
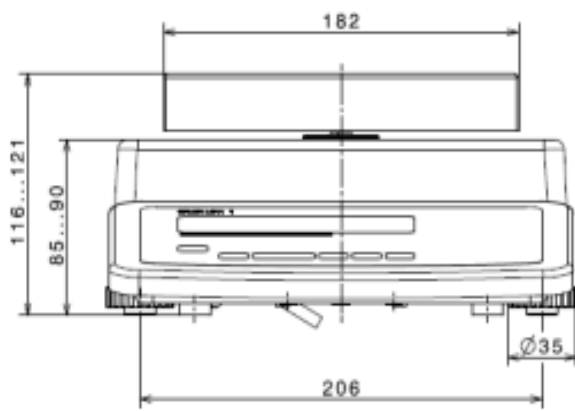
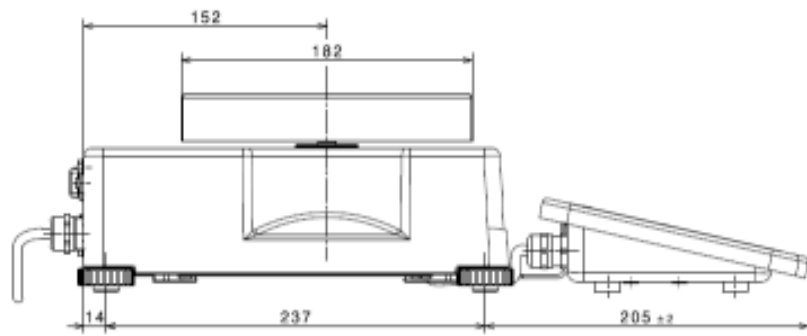
10°C to +40°C  
50°F to 104°F



Model with square load plate



Model with circular load plate: Signum Supreme 0.6 kg/ 1mg





### Application levels

	Level 1	Level 2	Level 3
Keyboard	6 keys	14 keys	17 keys
Display	14 segments	14 segments plus application icons	14 segments plus application icons
Weighing	•	•	•
Averaging		•	•
Reference scale connection		•	•
Counting		•	•
Totalizing		•	•
Check		•	•
Product data memory			•
Date/time		•	•
SQ min (minimum sample quality)	•	•	•
ID codes (4x40 characters)			•

### SIWA – Signum Advanced – high resolution

Order number

Example: SIWABBP-2-8-1

Series	Sensor technology	Dimensions	Base frame material	Application level	Max. cap.	Display resolution
SIW	A	BB	P	1	1	H
				2	8	I
				3		

### Resolutions for Signum Advanced

-H	>100,000d
-I	>30,000d

### Weighing Data Signum Advanced

#### Non-verifiable models

Capacity code	-1	-8
Display resolution code	-H	-I
Weighing capacity (kg)	1.5	8
Readability (g)	0.01	0.1
Calibration weight value (g)	1000	5000
Accuracy class	F1	F2
Preload (kg)	0	0
Repeatability (g)	0.03	0.2
Linearity (g)	0.03	0.3



## Options

Equipment		Level 1	Level 2	Level 3			
		IP43	IP 65	IP43		IP 65	IP43
Protection class IP65	IP65	•	•	•	•	•	
24 volt AC adapter	L8	•	•	•	•	•	Details: see data sheet options L8 / L9
Built-in rechargeable battery pack	L9	•	•	•	•	•	
Disconnectable plug	X1	•	•	•	•	•	
<b>Interfaces</b>							
COM 1: RS232 "Clock"	A31			•	•	•	
COM 1: RS232 "connectivity" such as "clock" plus PS/2 connection for barcode reader or keypad and prepared slot for future installation of a Unicom interface (see Accessories)	A32			•		•	
UniCom: RS232	A1	•	•	•	•	•	Details: see data sheet for options A1 / A2 / A3
UniCom: RS422	A2	•	•	•	•	•	
UniCom: RS485	A3	•	•	•	•	•	
UniCom: Ethernet	B9	•		•		•	Details: see data sheet option B9
UniCom: 5 dig. In/5 dig. Out*	A5	•	•	•	•	•	Details: see data sheet option A5
UniCom: Analog output*	A9	•	•	•	•	•	Details: see data sheet option A9
UniCom: Profibus	B1	•	•	•	•	•	
<b>Others</b>							
Internal Alibi-Memory	E5	•	•	•	•	•	
Internal calibration weight (only for models Signum Supreme non CE, for all models -*CE: built-in as standard)	E7	•	•	•	•	•	
Below weighing hanger (only for Supreme models)	U1	•	•	•	•	•	
<b>Manufacturer's final inspection test report</b>							
Final inspection test report (scale)	Z3	•	•	•	•	•	

## Accessories

### Printer

Data printer with date, time and statistics program	YDP20-OCE
Strip/Label printer, 60mm paper width	YDP04IS-OCEUV
Strip/Label printer, 108 mm paper width	YDP12IS-OCEUV
Thermal transfer printer, 108 mm paper width	YDP12IS-OCEUVTH

### Mechanical accessories

Wall mounting bracket for the display, stainless steel, tiltable	YDH02CISUS
Dust covers for display unit (2 pieces)	YDC01SW

### Cables

PC connection cable, 1.5 m	YCC05-00IM2
Printer connection cable, 3 m	YCC01-01CISLM3
Connection cable for analog output, with open cable ends	6906926

### Interfaces

UniCom - RS232 interface module *	YD003M-232
UniCom - RS485/422 interface module *	YD003M-485422
UniCom - Analog Out interface module *	YD003SW-AO
UniCom - Ethernet interface module *	YD003SW-ETH
UniCom - Dig. interface module I/O *	YD003SW-DIO
UniCom - Profibus DP interface module *	YD003SW-DP
External USB Interface Cable	YCC01-USBM2

\*for future installation by Service or dealer

### Electrical accessories

Remote display	YRD02Z
External red-green-red display	YRD11Z
Barcode reader, 120 mm scanning width with PS/2 connector	YBR03PS2

### Software

Sartorius Nice Label Express (SNLE)	YAD02IS
Software Wedge/includes 4CC05-00IM2 cable	YSW05
Software Wedge Pro/Ethernet Capable	YSW06

Sartorius Mechatronics Corp.  
5 Orville Drive  
Bohemia, NY 11716

Phone 800.635.2906  
Fax 631.254.4252  
info.mechatronics@sartorius.com  
www.sartorius-mechatronics.com

Sartorius Mechatronics Canada, Inc.  
2179 Dunwin Drive #4/5  
Mississauga, Ontario L5L 1X2

Phone 905.569.7977  
Fax 905.569.7021  
Toll Free 800.668.4234



Design and Specifications  
subject to change without notice

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