

## Signum Complete Scale

## Supreme SIWS



- Monolithic weigh cell
- Resolutions of 60,000 d to 350,000 d
- Class II, verified at the factory for use in legal metrology: 1 x 30,000 e ( $e=d$ ) 1 x 6000 e and 35,000 e (single and dual range) with built-in motorized calibration weight
- Compact scale with all application levels available for selection
- Flexible and ergonomic thanks to flexible mounting options of slim-line display and control unit
- Overload protection
- Variety of options for special requirements/Data communication
- Optional IP65 protection and optional approval for zone 2 and 22 hazardous areas 22

### General Specifications

#### Power supply (built-in)

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

#### Material, housing base

Die-cast aluminum painted with highly resistant industrial paint

#### Humidity

85% relative (non-condensing) to 31°C; 50% relative 40°C (104°F)

#### Use at elevation above sea level

up to 2,000 m; indoors

#### Measurement technology

Monolithic weigh cell with integrated A/D converter

#### Resolution (verifiable)

Depends on model: 1 x 40,000 e

#### Max. resolution (non-verifiable)

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

**Limitation of emissions** Acc. to EN 61326-1, Class B (IEC 61326-1)

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

**Electrical safety** Acc. to EN 61010-1 (IEC 61010-1)

**IP-protection (tested in accordance with EN 60529)**

IP43

### Net weight

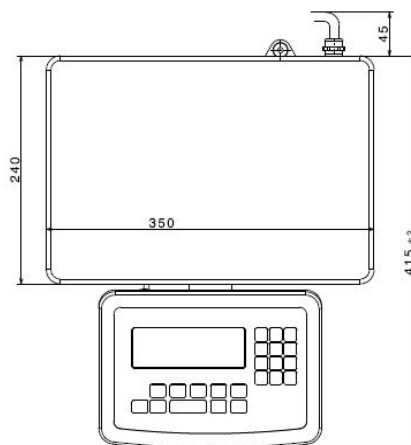
11,4 kg

(incl. built-in motorized calibration weight)

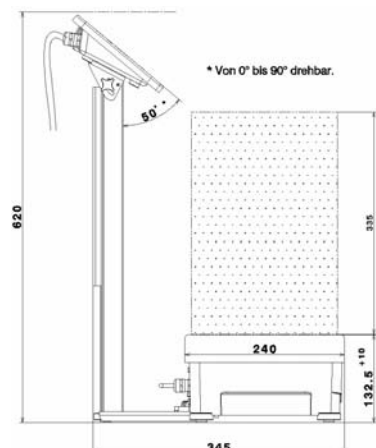
11.9 kg

### Ambient temperatures (e only)

10°C to 30°C (50°F to 86°F)



Front-mounted display



Raised display



### Application levels

	Level 1	Level 2	Level 3
Keypad	6 keys	14 keys	17 keys
Display	14 segments	14 segments plus application symbols	14 segments plus application symbols
Weighing	•	•	•
Averaging	•	•	•
Reference scale connection		•	•
Counting		•	•
Totalizing		•	•
Checkweighing		•	•
Product data memory			•
Date/time		Option A31	Option A31
SQ min (minimum sample quantity)	•	•	•
ID codes (4x40 characters)			•

### Order number

Series	Sensor technology	Dimensions	Base frame material	Application level	Max. cap.	Display resolution	CE approval
SIW	S	DC	P	1	6	S	SCE
				2	15	H	HCE
				3	16	K	KCE
					35	T	TCE
						D	DCE
						P	PCE

### Weight-determination specifications

Capacity code	-3	-6	-15	-16	-16	-16	-35	-35	-35
Resolution code	-I	-S	-I	-H	-K	-T	-D	-P	-H
Weighing capacity (kg)	3	6	15	16	3.5/16	3.5/16	7/35	7/35	35
Readability (g)	0.1	0.1	0.5	0.1	0.1/1	0.1/1	0.1/1	0.1/1	0.1
Resolution code, verified models		-SCE	-ICE	-HCE	-KCE	-TCE	-DCE	-PCE	-HCE
Verification scale interval e (g)		1	0.5	1	1	1	1	1	1
Preload (kg)		5	5	5	5	5	5	5	5
Standard deviation [s] in g				0.08 (verified models in acc. with EN 45501)					
Linearity (g)				0.2 (verified models in acc. with EN 45501)					

### Resolutions and Approvals

#### Non-verifiable

-S	Resolution $\geq 60,000$ d
-H	Resolution $\geq 100,000$ d
-K	Resolution $\leq 50,000$ d (fine range only for spec. capacity level)
-T	Resolution $\leq 50,000$ d (fine range can be continuously used)
-D	Resolution $> 50,000$ d (fine range only for spec. capacity level)
-P	Resolution $> 50,000$ d (fine range can be continuously used)
-I	Resolution $> 30,000$ d

#### Verified at the factory: CE

-SCE	Single range, Class II - $< 10,000$ e, $e = 10$ d
-HCE	Single range, Class II - $> 10,000$ e, $e = 10$ d
-KCE	Dual range (fine range only for spec. capacity level) Class II $\leq 5000$ e
-TCE	Dual range (fine range can be continuously used) Class II - $\leq 5000$ e
-DCE	Dual range (fine range only for spec. capacity level) Class II $> 5000$ e
-PCE	Dual range (fine range can be continuously used) Class II - $> 5000$ e
-ICE	Single range, Class II - $30,000$ e, $e = d$

## Options

Equipment		Level 1		Level 2		Level 3		
		IP44	IP65	IP44	IP65	IP44	IP65	
Type of protection	IP65	•	•	•	•	•	•	
24-volt AC adapter	L8	•	•	•	•	•	•	Details: see data sheet for Option L8
Built-in rechargeable battery pack	L9	•	•	•	•	•	•	Details: see data sheet for Option L9
Analog second interface	A15							Details: see data sheet for Option A15
Separable connection of second scale	X1	•	•	•	•	•	•	
Below-balance weighing port	U1	•		•		•		
Base covering plate, stainless steel	E8	•	•	•	•	•	•	
Protection rating, ATEX zones 2 and 22	Y2		•		•		•	Details: see data sheet for Option Y2

## Interfaces

COM 1: "RS-232 clock" with real-time clock/date	A31			•	•	•	•	Details: see data sheet for Options A31/A32
COM 1: "RS-232 connectivity": as for "RS-232 clock" plus PS/2 connector for bar code scanner or keyboard and slot prepared for later installation of a UniCOM interface (see "Accessories")	A32			•		•		
UniCOM: RS-232	A1	•	•	•	•	•	•	Details: see data sheet for Options A1/A2/A3
UniCOM: RS-422	A2	•	•	•	•	•	•	
UniCOM: RS-485	A3	•	•	•	•	•	•	
UniCOM: Ethernet	B9	•		•		•		Details: see data sheet for Option B9
UniCOM: 5 dig. IN/5 dig. OUT*	A5	•	•	•	•	•	•	Details: see data sheet for Option A5
UniCOM: Analog output port*	A9							Details: see data sheet for Option A9
UniCOM: Profibus	B1	•	•	•	•	•	•	

## Test record, manufacturer's final inspection

Test record, production final inspection (scale)	Z3	•	•	•	•	•	•	
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## Calibrated/adjusted and/or verified at the factory for use in legal metrology

Factory verification for use in legal metrology	F1	•	•	•	•	•	•	
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Base cover plate option and below-scale weighing port cannot be combined

Analog second scale connection and rechargeable battery pack cannot be combined

## Accessories/Options

### Printer

Printer for hard copies with the date, time and statistical evaluation	YDP03-OCE
Strip/label printer, 60 mm paper width	YDP04IS-OCEUV
Strip/label printer, 108 mm paper width	YDP12IS-OCEUV
Thermal transfer printer, 108 mm paper width	YDP02IS

### Mechanical Accessories

Column, 400 mm working height	YDH01P
Bracket for wall mounting of display and control unit; stainless steel	YDH01CIS
Bracket for wall mounting of display and control unit; stainless steel; tiltable	YDH02CIS
Dust covers for display and control unit (2 pcs)	YDC01SW

### Cables

Connecting cable for computer; 1.5 m	7357312
Connecting cable for printer; 3 m	YCC01-01CISLM3
Connecting cable for analog output port, with open cable ends	6906926

### Interfaces

UniCOM RS-232 interface module*	YD001SW-232
UniCOM RS-485/422 interface module*	YD001SW-485422
UniCOM analog OUT interface module*	YD001SW-AO
UniCOM Ethernet interface module*	YD001SW-ETH
UniCOM interface module, digital I/O*	YD001SW-DIO
UniCOM Profibus-DP interface module*	YD001SW-DP
Bluetooth scale adapter with external antenna	YBT01
External USB interface cable	YCC01-USBM2

\*for retrofitting by service technician or dealer

### Electrical Accessories

External Alibi memory	YAM01IS
Power supply for YAM01IS Alibi memory	YAM11IS
Second display	YRD02Z
External red/green/red display	YRD11Z
Bar code scanner, 120 mm scanning width, with PS/2 connector	YBR02-PS2

### Software

Sartorius NICE Label Express (SNLE)	YAD02IS
WinScale for Windows 95/98/2000/NT	YSW03
SartoConnect	YSC01L

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