



# Kontrols & Industrial Weighing

## Signum® Complete Scale Advanced SIWA



- Mechatronic weighing system
- Resolutions up to 65,000 d
- Compact scale with all application levels available for selection
- Flexible and ergonomic thanks to flexible mounting options of the control unit in slim-line design
- Overload protection
- Variety of options for special requirements/Data communication
- Optional IP65 protection and optional approval for zone 2 and 22 hazardous areas

### General Specifications

#### Power supply (built-in)

100-240 V AC (-15%/+10%), 50-60HZ, 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 2000 m; indoors

#### Measurement technology

Strain-gauge system

#### Resolution (non-verifiable)

depends on model: up to 1 x 65,000 d

#### Limitation of emissions

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

### Electrical safety

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

### Immunity to interference

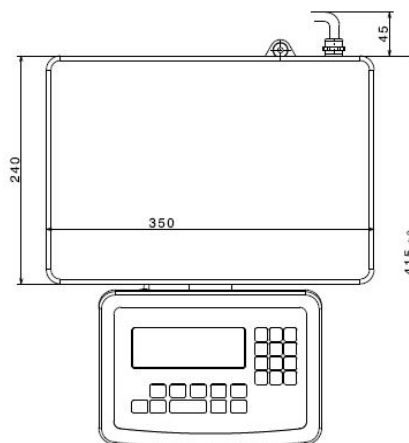
Acc. to EN 61326-1, industrial areas (IEC 61326-1)

### Ambient temperatures (e only)

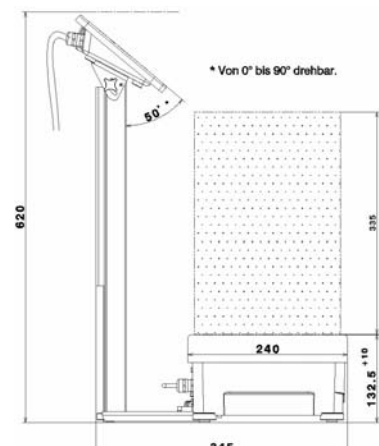
10°C to 30°C (50°F to 86°F)

### IP-protection

IP43



Front-mounted display



Raised display



Level 1



Level 2



Level 3

**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		•	•
SQ min (minimum allowable sample quantity)	•	•	•
ID codes (4x40 characters)			•

**Order number**

Series	Sensor technology	Dimensions	Base frame material	Application level	Max. cap.	Resolution
SIW	A	DC	P	1	7	S
				2	16	
				3	35	
					65	

**Weight-determination specifications**

SIWADCP-1, -2, -3

Order number	-7-S	-16-S	-35-S	-65-S
Weighing capacity (kg)	7	16	35	65
Readability (g)	0.1	0.2	0.5	1
Standard deviation [s] in g	0.2	0.4	1	2
Linearity (g)	0.3	0.8	2	4

Display resolution -S      >= 60,000 d (non-verifiable)

## Options

Equipment		Level 1		Level 2		Level 3		
		IP43	IP65	IP43	IP65	IP43	IP65	
Type of protection IP65	I65	•	•	•	•	•	•	
24 volt AC adapter	L8	•	•	•	•	•	•	Details: see data sheet for Options L8 / L9
Built-in rechargeable battery pack	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 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	•	•	•	•	•	•	

## Others

Internal Alibi memory	E5	•	•	•	•	•	•	
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## Test record, manufacturer's final inspection

Test record, production final inspection (scale)	Z3	•	•	•	•	•	•	
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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	YDP20-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	YDP12IS-OCEUV

### Mechanical Accessories

Column, 335-350 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	7357314
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	YBR03PS2

### Software

Sartorius NICE Label Express (SNLE)	YAD02IS
WinScale for Windows 95/98/2000/NT	YSW03
SartoCollect	YSC02