This document courtesy of:

Data Weighing Systems, Inc.

Contact Us

For immediate assistance call
1-800-750-6842

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)

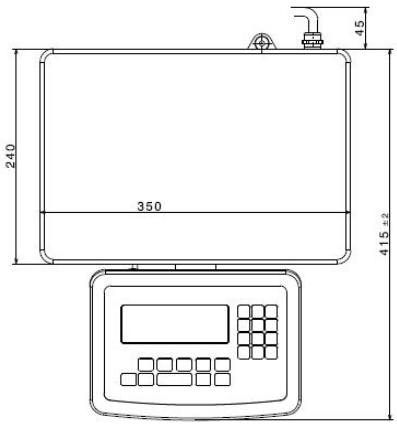
Electrical safety
Acc. to EN 61010-1 (IEC 61010-1)

IP-protection
IP43

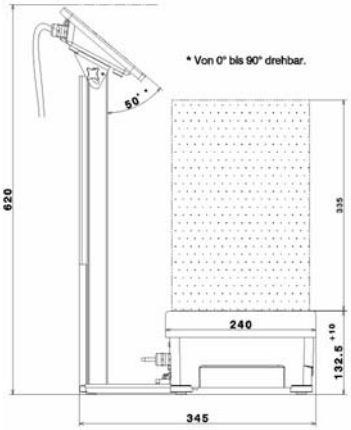
Net weight
11,4 kg

Net weight
(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		•	•
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	**-6**	**-15**	**-16**	**-16**	**-16**	**-35**	**-35**	**-35**
Resolution code	**-S**	**-I**	**-H**	**-K**	**-T**	**-D**	**-P**	**-H**
Weighing capacity (kg)	6	15	16	3.5/16	3.5/16	7/35	7/35	35
Readability (g)	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		**Verified at the factory: CE**	
-S	Resolution >= 60,000 d	**-SCE**	Single range, Class II - < 10,000 e, e = 10 d
-H	Resolution >= 100,000 d	**-HCE**	Single range, Class II - > 10,000 e, e = 10 d
-K	Resolution <= 50,000 d (fine range only for spec. capacity level)	**-KCE**	Dual range (fine range only for spec. capacity level) Class II <= 5000 e
-T	Resolution <= 50,000 d (fine range can be continuously used)	**-TCE**	Dual range (fine range can be continuously used) Class II - <= 5000 e
-D	Resolution > 50,000 d (fine range only for spec. capacity level)	**-DCE**	Dual range (fine range only for spec. capacity level) Class II > 5000 e
-P	Resolution > 50,000 d (fine range can be continuously used)	**-PCE**	Dual range (fine range can be continuously used) Class II - > 5000 e
-I	Resolution > 30,000 d	**-ICE**	Single range, Class II - 30,000 e, e = d

Options

Equipment		Level 1 IP43	Level 1 IP65	Level 2 IP43	Level 2 IP65	Level 3 IP43	Level 3 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	•	•	•	•	•	•	

Test record, manufacturer's final inspection							
Test record, production final inspection (scale)	Z3	•	•	•	•	•	•

Calibrated/adjusted and/or verified at the factory for use in legal metrology							
Factory verification for use in legal metrology	F1	•	•	•	•	•	•

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	YDP03-0CE
Strip/label printer, 60 mm paper width	YDP04IS-0CEUV
Strip/label printer, 108 mm paper width	YDP12IS-0CEUV
Thermal transfer printer, 108 mm paper width	YDP02IS

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	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 *	YDO01SW-232
UniCOM RS-485/422 interface module*	YDO01SW-485422
UniCOM analog OUT interface module*	YDO01SW-AO
UniCOM Ethernet interface module*	YDO01SW-ETH
UniCOM interface module, digital I/O*	YDO01SW-DIO
UniCOM Profibus-DP interface module*	YDO01SW-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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