



Signum Complete Scale

Regular SIWR



- Standard weighing system
- Resolutions of 3000 d to 35,000 d
- The dual range scales are available with your choice of fine range only for spec. capacity level, or fine range that can be continuously used
- 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

General Specifications

Power supply (built-in)

AC 100-240 V (-15%/+10%), 50-60 Hz, optional built-in rechargeable battery or 24 V connection

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

Standard weigh cell, strain-gauge technology

Resolution (verifiable, class III)

depends on model: 2 x 3000/3500 e
1 x 6000/7500 e
1 x 3000 e (single range)

Resolution (non-verifiable)

(depends on model) to 35,000 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)

Load plate dimensions

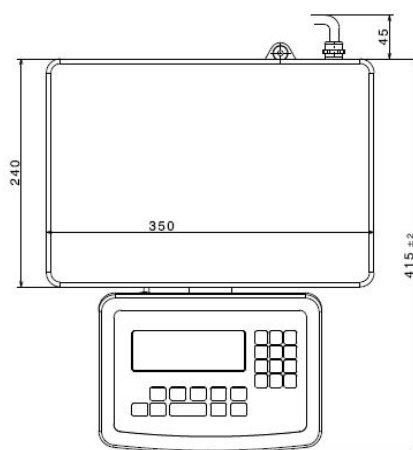
340 mm x 240 mm

IP-protection (tested in accordance with EN 60529)

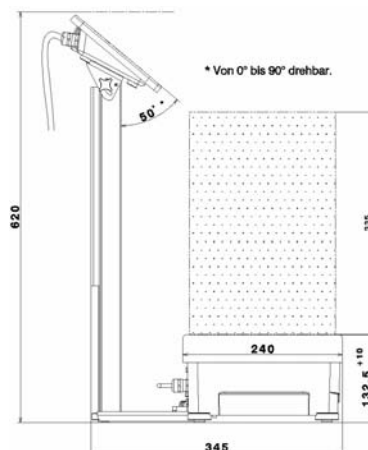
IP43

Ambient operating temperature range (only for use in legal metrology)

-10°C to +40°C (+14°F to +104°F)



Front-mounted display



Raised display with YDH01P column

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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)			•

Weight-determination specifications

SIWRDCP-1, -2, -3 (1 = application level 1, etc.)

Capacity code	-3	-3	-6	-6	-6	-6	-6	-6
Resolution code	-I	Verif. only	-N	-R	Verif. only	-L	-I	-M
Weighing capacity (kg)	3	3	3/6	6	6	6	6	3/6
Readability (g)	0.1	1	1/2	1	2	0.5	0.2	1/2
Resolution code, verified models		-BCE	-NCE	-RCE	-BCE			
Verification scale interval e (g)		1	1/2	1	2			
Preload (kg)	1.2	1.2	1.2	1.2	3	3	3	3
Standard deviation [s] in g	0.2	EN 45501	EN 45501	EN 45501	EN 45501	0.2	0.2	0.2
Linearity (g)	0.3	EN 45501	EN 45501	EN 45501	EN 45501	0.4	0.4	0.4

Capacity code	-15	-15	-15	-15	-15	-15
Resolution code	-N	-R	Verif. only	-L	-I	-M
Weighing capacity (kg)	6/15	15	15	15	15	6/15
Readability (g)	2/5	2	5	1	0.5	2/5
Resolution code, verified models	-NCE	-RCE	-BCE			
Verification scale interval e (g)	2/5	2	5			
Preload (kg)	3	3	6	3	3	3
Standard deviation [s] in g	EN 45501	EN 45501	EN 45501	0.4	0.4	0.4
Linearity (g)	EN 45501	EN 45501	EN 45501	0.8	0.8	0.8

Capacity code	-35	-35	-35	-35	-35	-35
Resolution code	-N	-R	Verif. only	-L	-I	-M
Weighing capacity (kg)	15/35	35	35	35	35	15/35
Readability (g)	5/10	5	10	2	1	5/10
Resolution code, verified models	-NCE	-RCE	-BCE			
Verification scale interval e (g)	5/10	5	10			
Preload (kg)	6	6	6	6	6	6
Standard deviation [s] in g	EN 45501	EN 45501	EN 45501	1	1	1
Linearity (g)	EN 45501	EN 45501	EN 45501	1.5	1.5	1.5

Capacity code	-60	-60	-60	-60	-60	-60
Resolution code	-N	-R	Verif. only	-L	-I	-M
Weighing capacity (kg)	30/60	60	60	60	60	30/60
Readability (g)	10/20	10	20	5	2	10/20
Resolution code, verified models	-NCE	-RCE	-BCE			
Verification scale interval e (g)	10/20	10	20			
Preload (kg)	12	12	12	12	12	12
Standard deviation [s] in g	EN 45501	EN 45501	EN 45501	2	2	2
Linearity (g)	EN 45501	EN 45501	EN 45501	3	3	3

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Order number

Series	Sensor technology	Dimensions	Base frame material	-	Application level	-	Max. cap.	-	Display Resolution	CE approval
SIW	R	DC	P	-	1	-	3	-	L	
					2		6		I	
					3		15		N	NCE
							35		M	
							60		R	RCE
										BCE

Resolutions

Resolution > 15,000d (non-verifiable)	-L
Resolution > 30,000d (non-verifiable)	-I
Resolution 2*3,000d (fine range only for spec. capacity level; non-verifiable)	-N
Resolution 2*3,000d (fine range that can be continuously used; non-verifiable)	-M
Resolution > 6,000d (non-verifiable)	-R
Verifiable, 2-range (fine range only for spec. capacity level), Class III 2 x 3000/3500e	-NCE
Verifiable, single-range, Class III 1 x 6000/7500e	-RCE
Verifiable for legal metrology, single-range, Class III 1 x 3000e	-BCE

Options

Equipment		Level 1		Level 2		Level 3		
		IP44	IP65	IP44	IP65	IP44	IP65	
Type of protection IP65	I65	•	•	•	•	•	•	
24-volt AC adapter	L8	•	•	•	•	•	•	Details: see data sheet for Option L8/L9
Built-in rechargeable battery pack	L9	•	•	•	•	•	•	Details: see data sheet for Option L8/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

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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