Series S102/SX102
Panel mount displays
for Profinet

The digital displays of the S102 and SX102 series are compact devices designed for installation in front panels or for switch panel mounting. The character height of the numeric version is 14 or 25 mm, of the alphanumeric version 18 or 30 mm.

Series S102
Units with
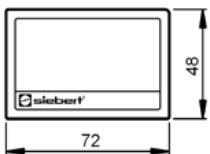# numeric display

Comfortable parameterization

The displays are fully parameterized with an engineering framework, for example Totally Integrated Automation (TIA) Siemens portal. This permits the parameterization even in build-in condition.

Standard units

Character height 14 mm	4 digits	6 digits
Type designation Dimensional drawing	S102-04/14/0x-000/0B-N0 A	S102-06/14/0x-000/0B-N0 B

Character height 25 mm	4 digits	5 digits
Type designation Dimensional drawing	S102-04/25/0x-001/0B-N0 C	S102-05/25/0x-001/0B-N0 C

Dimensional drawing A   Dimensional drawing B
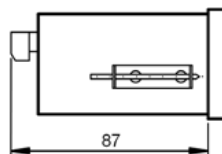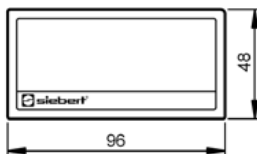
Dimensions in mm

Integrated switch

The devices have two RJ45 sockets and an integrated IRT-ready switch in accordance with the conformance class CC-C.
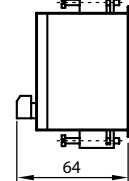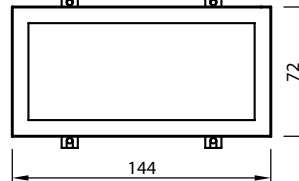
Dimensional drawing C

Extended character set

Among the digits the character set also contains the other letters and special characters which can be displayed with a 7-segment matrix.

Unit conversion function

A formula, which can be stored in the display, allows the displaying of values in other measuring units, for example degrees Fahrenheit in degrees Celsius or kilograms to tons.

Dimension symbols

The shown dimension symbols are available.

Display overflow and underflow

If the display receives values which can not be displayed ⊔⊔⊔⊔ or �°°°° appears in the display.

Leading zeros

The numbers of the leading zeros can be set individually.

F101	F102	F103	F120	F130	F141	F152	F161	F201	F202	F203	F210	F218	F220	F227	F235
g	kg	t	t/h	daN	l	l/s	ℓ	mm	cm	m	m³	m/min	km/h	m/s	m³/min

F314	F324	F325	F331	F332	F402	F403	F404	F405	F406	F432	F440	F441	F443	F444	F476
kA	kW	MW	kWh	MWh	s	min	h	1/min	Stk.	%	°C	ppm	mbar	bar	mmWS

Smart-Dot-Function

If the Smart-Dot-Function is activated the display moves the decimal point automatically, so that the value before decimal point is automatically displayed. The decimal places are either truncated or rounded.

To display a date or a code several decimal points can be displayed also.

Different presentational attribute

Values can be displays left-justified or right-justified. There are also different flashing modes to choose.

An automatic change in presentation is possible as well as when exceeding two threshold values or when falling below two threshold values. If for example the limit value is exceeded the value is flashing in the display. When the value returns to a value within the threshold the value shines permanently on the display again.

Technical data

Power supply	24 V DC ±15 %, galvanically isolated, protected against reversed polarity
Protection type	IP40 front, optional IP65 (housing 72 x 48 and 96 x 48 mm)
	IP65 front (housing 144 x 72 mm)
Connecting technology	2 x RJ45 socket, PROFINET conformance class CC-C

Detailed technical data see operating instructions.

LED color

Red	S102-xx/xx/xR-xxx/xx-xx
Green	S102-xx/xx/xG-xxx/xx-x

Options

Protection type IP65 front[1]	S102-xx/xx/xx-xx1/xx-xx
Dimension symbols	S102-Fx/xx/xx-xxx/xx-xx

[1] Applies to S102-xx/14/xx-xxx/xx-xx

Series SX102
Displays for alphanumeric character representation
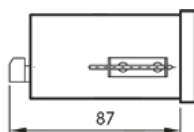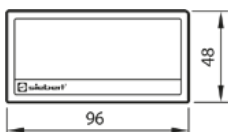
Standard units

Character height 18 mm	6 characters	8 characters	14 characters
Type designation	SX102-06/18/0x-000/0B-N0	SX102-08/18/0x-001/0B-N0	SX102-14/18/0x-001/0B-N0
Dimensional drawing	B	C	D

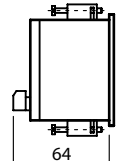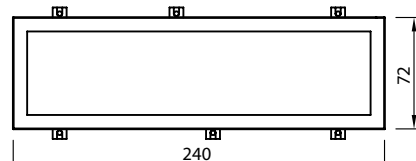| Character height 30 mm	8 characters
Type designation	SX102-08/30/0x-001/0B-N0
Dimensional drawing	D

Dimensional drawing B

48
96
87

Dimensions in mm

Dimensional drawing C

72
144

Dimensional drawing D

72
240
64

Comfortable parameterization

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Integrated switch

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Different presentational attribute

Values can be displays left-justified or right-justified. There are also different flashing modes to choose.

Technical data

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Protection type	IP40 front, optional IP65 (housing 96 x 48 mm)
	IP65 front (housing 144 x 72 and 240 x 72 mm)
Connecting technology	2 x RJ45 socket, PROFINET conformance class CC-C

Detailed technical data see operating instructions.

Options

Protection type IP65 front[1]	SX102-xx/xx/xx-xx1/xx-xx

[1] Applies to SX102-06/18/xx-xxx/xx-xx

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Korea, Malaysia, Mexico, Norway, Poland, Singapore, Slovenia, South Africa, Spain, Turkey, United Kingdom