

# Series S102/SX102

## Panel mount displays



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



## Standard units



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



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

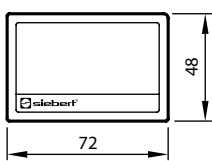
## Menu-guided parameterization

Operation modes, parameters and device functions are defined in a menu. A fixed decimal point can be defined as well as if leading zeros are to be displayed or not to be displayed or if a display test has to take place after power-on.

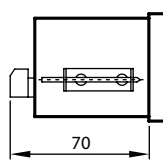
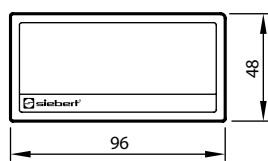
## Switching outputs

Units with analog or counting pulse inputs have potential-free switching outputs. The switching points are to be set in the menu.

Dimensional drawing A

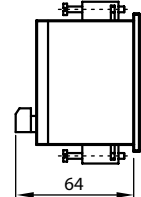
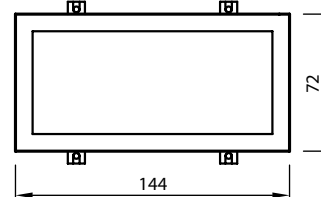


Dimensional drawing B



Dimensions in mm

Dimensional drawing C



## Extended character set

Among the digits the character set also contains letters and special characters which can be displayed with a 7-segment matrix (applies to devices with serial or fieldbus interface).

## Dimension symbols

The shown dimension symbols are available.

F101	F102	F103	F120	F130	F141	F152	F161	F201	F202	F203	F210	F218	F220	F227	F235
<b>g</b>	<b>kg</b>	<b>t</b>	<b>t/h</b>	<b>daN</b>	<b>l</b>	<b>l/s</b>	<b>ℓ</b>	<b>mm</b>	<b>cm</b>	<b>m</b>	<b>m<sup>3</sup></b>	<b>m/min</b>	<b>km/h</b>	<b>m/s</b>	<b>m<sup>3</sup>/min</b>
F314	F324	F325	F331	F332	F402	F403	F404	F405	F406	F432	F440	F441	F443	F444	F476
<b>kA</b>	<b>kW</b>	<b>MW</b>	<b>kWh</b>	<b>MWh</b>	<b>s</b>	<b>min</b>	<b>h</b>	<b>1/min</b>	<b>Stk.</b>	<b>%</b>	<b>°C</b>	<b>ppm</b>	<b>mbar</b>	<b>bar</b>	<b>mmWS</b>

## Sensor supply

The devices have a voltage source to supply the sensors or signalers (applies to devices with 25 mm character height and analog, parallel or counting pulse input).



### Data interface

Profibus DP	S102-xx/xx/xx-xxx/xx-K0
Modbus RTU	S102-xx/xx/xx-xxx/xx-M0
RS485/RS232	S102-xx/xx/xx-xxx/xx-S0
20 mA TTY/RS232	S102-xx/xx/xx-xxx/xx-T0
BCD/binary	S102-xx/xx/xx-xxx/xx-P0
Analog	S102-xx/xx/xx-xxx/xx-A0
Counter	S102-xx/xx/xx-xxx/xx-Z0

### Technical data

Power supply	24 V DC $\pm 15\%$ , 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	Plug-in screw-type terminals, Profibus 9-pin sub-D socket

Detailed technical data see operating instructions.

### LED color

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

### Options




Protection type IP65 front <sup>1</sup>	S102-xx/xx/xx-xx1/xx-xx
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<sup>1</sup> Applies to S102-xx/14/xx-xxx/xx-xx

# Series SX102

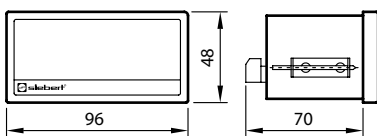
## Displays for alphanumeric character representation

### Standard units

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

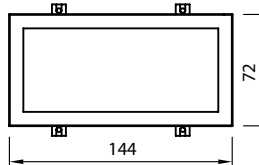
	
<b>Character height 30 mm</b>	<b>8 characters</b>
Type designation	SX102-08/30/0x-001/0B-xx
Dimensional drawing	D

Dimensional drawing B

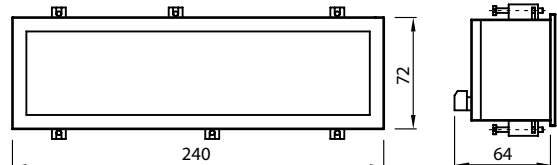


Dimensions in mm

Dimensional drawing C



Dimensional drawing D



### Data interfaces

The large size displays support the interfaces for the industrial communication: field buses and serial interfaces.

### Menu-guided parameterization

Operation modes, device functions and parameters are defined in the menu.



### Data interface

Profibus DP	SX102-xx/xx/xx-xxx/xx-K0
Modbus RTU	SX102-xx/xx/xx-xxx/xx-M0
RS485/RS232	SX102-xx/xx/xx-xxx/xx-S0
20mATTY/RS232	SX102-xx/xx/xx-xxx/xx-T0

### Technical data

Power supply	24 V DC $\pm$ 15 %, galvanically isolated, protected against reversed polarity
Protection type	IP40 front, optional IP65 (housing 96 x 48 mm) IP65 front (housing 144 x 72 and 240 x 72 mm)
Connecting technology	Plug-in screw-type terminals, Profibus 9-pin sub-D socket

Detailed technical data see operating instructions.

### LED color

Red	SX102-xx/xx/xR-xxx/xx-xx
Green	SX102-xx/xx/xG-xxx/xx-xx

### Options

Protection type IP65 front <sup>1</sup>	SX102-xx/xx/xx-xx1/xx-xx
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<sup>1</sup> Applies to SX102-06/18/0x-00x/0B-xx

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