

# Series S302/SX302

## Numeric and alphanumeric large size displays

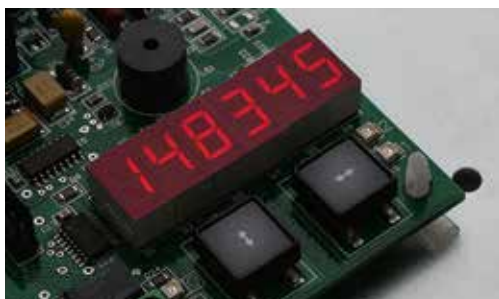


With technical perfection and innovative details the S302 series sets a standard for professional large size displays. The wide range of types covers devices with up to 8 digits, character heights from 57 to 250 mm and all common data interfaces.

The SX302 series comprises single line alphanumeric large size displays with character heights of 50 or 100 mm. They are suitable to display short information such as article number, registration number, etc.

# Series S302

## Numeric large size displays



### Internal second display

After opening the housing a second display is visible. It shows the same values as the main display. There is no need for the main display to be visible during commissioning and parameterization – an operational convenience especially with large volume devices or at exposed installation sites.

In the menu mode a menu appears in the second display. Operation modes, parameters and device functions are defined in the 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.



### Interfaces for industrial communication

The large size displays support the interfaces for the industrial communication: field buses, network topologies, serial or parallel interfaces and also the control with analogue signals and impulses (counter).



### Function inputs

The devices are equipped with PLC-compatible function inputs. They allow the activation of device functions such as flashing, blanking and reduction of the LED brightness independent from the signals over the data interface (except devices with parallel or Profibus interface).



### Sensor supply

The devices have a voltage source to supply sensors or signalers (except devices with Profibus interface). The power source can also be used as H signal for the function inputs.

### Readable one- or double-sided

The large size displays are offered either with a one- or a double-sided display. The versions with a double-sided display have a LED display and show the same information on both sides.

### Switching outputs

The devices dispose of potential-free switching outputs. A command over the data interface generates a wiping impulse at the switching output. Devices with serial or Ethernet interface can automatically generate a wiping impulse on receipt of a data telegram. The wiping impulse is suitable for the controlling of optical or acoustical signalers to draw the attention to the change of information on the display (except devices with parallel or Profibus interface). Devices with analog or counting pulse input have switching outputs for the upper and lower limit value.



### Ignoring of characters

If the characters to be displayed in the data telegram do not begin at the first position it is set in the menu how many preceding characters are to be ignored. Thus the user data can be selectively evaluated (for devices with serial data interface).

### 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 (for devices with serial or fieldbus interface).





## Standard units



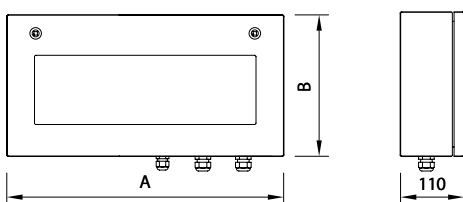
Character height		1 digit	2 digits	3 digits	4 digits
57 mm	One-sided display	—	S302-02/06/0x-100/0A-xx	S302-03/06/0x-100/0A-xx	S302-04/06/0x-100/0A-xx
	Double-sided display	—	S302-02/06/0x-200/3A-xx	S302-03/06/0x-200/3A-xx	S302-04/06/0x-200/3A-xx
	Measures A x B	—	300 <sup>1</sup> x 185 mm	300 <sup>1</sup> x 185 mm	300 <sup>1</sup> x 185 mm
100 mm	One-sided display	S302-01/10/0x-100/0A-xx	S302-02/10/0x-100/0A-xx	S302-03/10/0x-100/0A-xx	S302-04/10/0x-100/0A-xx
	Double-sided display	S302-01/10/0x-200/3A-xx	S302-02/10/0x-200/3A-xx	S302-03/10/0x-200/3A-xx	S302-04/10/0x-200/3A-xx
	Measures A x B	330 x 245 mm	330 x 245 mm	480 x 245 mm	480 x 245 mm
160 mm	One-sided display	S302-01/16/0x-100/0A-xx	S302-02/16/0x-100/0A-xx	S302-03/16/0x-100/0A-xx	S302-04/16/0x-100/0A-xx
	Double-sided display	S302-01/16/0x-200/3A-xx	S302-02/16/0x-200/3A-xx	S302-03/16/0x-200/3A-xx	S302-04/16/0x-200/3A-xx
	Measures A x B	390 x 300 mm	390 x 300 mm	670 x 300 mm	670 x 300 mm
250 mm	One-sided display	S302-01/25/0x-100/0A-xx	S302-02/25/0x-100/0A-xx	S302-03/25/0x-100/0A-xx	S302-04/25/0x-100/0A-xx
	Double-sided display	S302-01/25/0x-200/3A-xx	S302-02/25/0x-200/3A-xx	S302-03/25/0x-200/3A-xx	S302-04/25/0x-200/3A-xx
	Measures A x B	570 x 400 mm	570 x 400 mm	1030 x 400 mm	1030 x 400 mm



Character height		5 digits	6 digits	7 digits	8 digits
57 mm	One-sided display	S302-05/06/0x-100/0A-xx	S302-06/06/0x-100/0A-xx	S302-07/06/0x-100/0A-xx	S302-08/06/0x-100/0A-xx
	Double-sided display	S302-05/06/0x-200/3A-xx	S302-06/06/0x-200/3A-xx	S302-07/06/0x-200/3A-xx	S302-08/06/0x-200/3A-xx
	Measures A x B	400 x 185 mm	400 x 185 mm	510 x 185 mm	510 x 185 mm
100 mm	One-sided display	S302-05/10/0x-100/0A-xx	S302-06/10/0x-100/0A-xx	S302-07/10/0x-100/0A-xx	S302-08/10/0x-100/0A-xx
	Double-sided display	S302-05/10/0x-200/3A-xx	S302-06/10/0x-200/3A-xx	S302-07/10/0x-200/3A-xx	S302-08/10/0x-200/3A-xx
	Abmessungen A x B	680 x 245 mm	680 x 245 mm	870 x 245 mm	870 x 245 mm
160 mm	One-sided display	S302-05/16/0x-100/0A-xx	S302-06/16/0x-100/0A-xx	S302-07/16/0x-100/0A-xx	—
	Double-sided display	S302-05/16/0x-200/3A-xx	S302-06/16/0x-200/3A-xx	S302-07/16/0x-200/3A-xx	—
	Measures A x B	960 x 300 mm	960 x 300 mm	1100 x 300 mm	—
250 mm	One-sided display	S302-05/25/0x-100/0A-xx	S302-06/25/0x-100/0A-xx	S302-07/25/0x-100/0A-xx	—
	Double-sided display	S302-05/25/0x-200/3A-xx	S302-06/25/0x-200/3A-xx	S302-07/25/0x-200/3A-xx	—
	Measures A x B	1500 x 400 mm	1500 x 400 mm	1730 x 400 mm	—

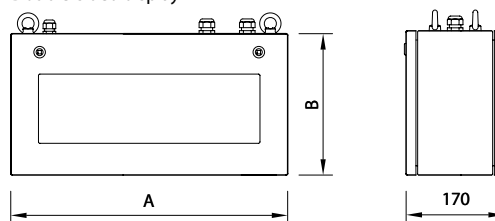
<sup>1</sup> 400 mm for units with Profibus interface

One-sided display



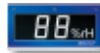
Dimensions in mm

Double-sided display





### Stand units with dimension symbols



Character height		1 digit + dimension <sup>2</sup>	2 digits + dimension <sup>2</sup>	3 digits + dimension <sup>2</sup>	4 digits + dimension <sup>2</sup>
57 mm	One-sided display	—	S302-F2/06/0x-100/0A-xx	S302-F3/06/0x-100/0A-xx	S302-F4/06/0x-100/0A-xx
	Double-sided display	—	S302-F2/06/0x-200/3A-xx	S302-F3/06/0x-200/3A-xx	S302-F4/06/0x-200/3A-xx
	Measures A x B	—	300 <sup>1</sup> x 185 mm	300 <sup>1</sup> x 185 mm	400 x 185 mm
100 mm	One-sided display	S302-F1/10/0x-100/0A-xx	S302-F2/10/0x-100/0A-xx	S302-F3/10/0x-100/0A-xx	S302-F4/10/0x-100/0A-xx
	Double-sided display	S302-F1/10/0x-200/3A-xx	S302-F2/10/0x-200/3A-xx	S302-F3/10/0x-200/3A-xx	S302-F4/10/0x-200/3A-xx
	Measures A x B	330 x 245 mm	480 x 245 mm	480 x 245 mm	680 x 245 mm
160 mm	One-sided display	S302-F1/16/0x-100/0A-xx	S302-F2/16/0x-100/0A-xx	S302-F3/16/0x-100/0A-xx	S302-F4/16/0x-100/0A-xx
	Double-sided display	S302-F1/16/0x-200/3A-xx	S302-F2/16/0x-200/3A-xx	S302-F3/16/0x-200/3A-xx	S302-F4/16/0x-200/3A-xx
	Measures A x B	390 x 300 mm	670 x 300 mm	670 x 300 mm	960 x 300 mm
250 mm	One-sided display	S302-F1/25/0x-100/0A-xx	S302-F2/25/0x-100/0A-xx	S302-F3/25/0x-100/0A-xx	S302-F4/25/0x-100/0A-xx
	Double-sided display	S302-F1/25/0x-200/3A-xx	S302-F2/25/0x-200/3A-xx	S302-F3/25/0x-200/3A-xx	S302-F4/25/0x-200/3A-xx
	Measures A x B	570 x 400 mm	1030 x 400 mm	1030 x 400 mm	1500 x 400 mm



Character height		5 digits + dimension <sup>2</sup>	6 digits + dimension <sup>2</sup>	7 digits + dimension <sup>2</sup>
57 mm	One-sided display	S302-F5/06/0x-100/0A-xx	S302-F6/06/0x-100/0A-xx	S302-F7/06/0x-100/0A-xx
	Double-sided display	S302-F5/06/0x-200/3A-xx	S302-F6/06/0x-200/3A-xx	S302-F7/06/0x-200/3A-xx
	Measures A x B	400 x 185 mm	510 x 185 mm	510 x 185 mm
100 mm	One-sided display	S302-F5/10/0x-100/0A-xx	S302-F6/10/0x-100/0A-xx	S302-F7/10/0x-100/0A-xx
	Double-sided display	S302-F5/10/0x-200/3A-xx	S302-F6/10/0x-200/3A-xx	S302-F7/10/0x-200/3A-xx
	Measures A x B	680 x 245 mm	870 x 245 mm	870 x 245 mm
160 mm	One-sided display	S302-F5/16/0x-100/0A-xx	S302-F6/16/0x-100/0A-xx	—
	Double-sided display	S302-F5/16/0x-200/3A-xx	S302-F6/16/0x-200/3A-xx	—
	Measures A x B	960 x 300 mm	1100 x 300 mm	—
250 mm	One-sided display	S302-F5/25/0x-100/0A-xx	S302-F6/25/0x-100/0A-xx	—
	Double-sided display	S302-F5/25/0x-200/3A-xx	S302-F6/25/0x-200/3A-xx	—
	Measures A x B	1500 x 400 mm	1730 x 400 mm	—

<sup>1</sup> 400 mm for units with Profibus interface

<sup>2</sup> Dimension symbols see table below

### Dimension symbols

<b>g</b>	<b>kg</b>	<b>t</b>	<b>kp</b>	<b>lb</b>	$\frac{\text{kg}}{\text{min}}$	$\frac{\text{kg}}{\text{h}}$	$\frac{\text{g}}{\text{mm}^2}$	$\frac{\text{kg}}{\text{cm}^2}$	$\frac{\text{kg}}{\text{m}^2}$	$\frac{\text{kg}}{\text{m}^3}$	t/h	$\frac{\text{m}}{\text{s}}$	$\frac{\text{m}}{\text{h}}$	$\frac{\text{m}^2}{\text{h}}$	$\frac{\text{m}^3}{\text{min}}$	$\frac{\text{m}^3}{\text{h}}$	$\frac{\text{Nm}^3}{\text{h}}$	<b>V</b>	<b>kV</b>	<b>VA</b>	<b>kVA</b>	<b>MVA</b>	<b>A</b>
F101	F102	F103	F104	F105	F106	F107	F111	F112	F113	F114	F120	F227	F229	F233	F235	F236	F237	F303	F304	F308	F309	F310	F313
<b>N</b>	<b>kN</b>	<b>l</b>	$\frac{\text{l}}{\text{min}}$	<b>l/s</b>	<b>l/h</b>	<b>mm</b>	<b>cm</b>	<b>m</b>	<b>km</b>	<b>mm<sup>2</sup></b>	<b>cm<sup>2</sup></b>	<b>Hz</b>	<b>kHz</b>	<b>W</b>	<b>kW</b>	<b>MW</b>	<b>kWh</b>	<b>MWh</b>	<b>S</b>	<b>min</b>	<b>h</b>	$\frac{1}{\text{min}}$	$\frac{\text{Stk}}{\text{min}}$
F131	F132	F141	F143	F152	F154	F201	F202	F203	F204	F205	F206	F318	F319	F323	F324	F325	F331	F332	F402	F403	F404	F405	F407
<b>m<sup>2</sup></b>	<b>mm<sup>3</sup></b>	<b>cm<sup>3</sup></b>	<b>m<sup>3</sup></b>	$\frac{\text{mm}}{\text{s}}$	$\frac{\text{mm}}{\text{min}}$	$\frac{\text{mm}}{\text{h}}$	$\frac{\text{cm}}{\text{s}}$	$\frac{\text{cm}}{\text{min}}$	$\frac{\text{cm}}{\text{h}}$	$\frac{\text{m}}{\text{min}}$	$\frac{\text{km}}{\text{h}}$	$\frac{\text{Stk}}{\text{h}}$	<b>rpm</b>	<b>%</b>	<b>%F</b>	<b>%rF</b>	<b>%rH</b>	<b>°C</b>	<b>ppm</b>	<b>bar</b>	<b>Pa</b>	<b>kPa</b>	<b>pH</b>
F207	F208	F209	F210	F211	F212	F213	F214	F215	F216	F218	F220	F408	F416	F432	F433	F434	F435	F440	F441	F444	F445	F446	F447

### Data interface

Ethernet TCP/IP	S302-xx/xx/xx-xxx/xx-E0
Profinet	S302-xx/xx/xx-xxx/xx-YR
Profibus DP	S302-xx/xx/xx-xxx/xx-K0
Modbus RTU	S302-xx/xx/xx-xxx/xx-M0
Modbus TCP/IP	S302-xx/xx/xx-xxx/xx-YT
DeviceNet	S302-xx/xx/xx-xxx/xx-YD
Interbus Cu	S302-xx/xx/xx-xxx/xx-YJ
RS485/RS232	S302-xx/xx/xx-xxx/xx-S0
20 mA TTY/RS232	S302-xx/xx/xx-xxx/xx-T0
BCD/binary	S302-xx/xx/xx-xxx/xx-P0 (1 to 6 characters)
Analog	S302-xx/xx/xx-xxx/xx-A0 (2 to 5 characters)
Counter	S302-xx/xx/xx-xxx/xx-Z0 (2 to 8 characters)

### LED color

White <sup>1</sup>	S302-xx/xx/xW-xxx/xx-xx
Red	S302-xx/xx/xR-xxx/xx-xx
Red/green/orange <sup>2</sup>	S302-xx/xx/xM-xxx/xx-xx
Green	S302-xx/xx/xG-xxx/xx-xx
Yellow	S302-xx/xx/xY-xxx/xx-xx

<sup>1</sup> Not in connection with character height 160 and 250 mm for indoor use

<sup>2</sup> Only in connection with character height 57 and 100 mm for indoor use

### Options

LED for outdoor use	S302-xx/xx/2x-xxx/xx-xx
Housing with two-layer coating	S302-xx/xx/xx-x1x/xx-xx
Housing V2A (stainless steel), varnished	S302-xx/xx/xx-x2x/xx-xx
Housing V2A (stainless steel), brushed	S302-xx/xx/xx-x3x/xx-xx
Housing V4A (stainless steel), brushed	S302-xx/xx/xx-x5x/xx-xx
Protection type IP65	S302-xx/xx/xx-xx1/xx-xx
Protection type IP54 with climate control	S302-xx/xx/xx-xx2/xx-xx
Protection type IP54 with climate control and heating	S302-xx/xx/xx-xx4/xx-xx
Protective weather cover	S302-xx/xx/xx-xxx/xx-xx-1011
Power supply 24 V DC	S302-xx/xx/xx-xxx/xB-xx

### Technical data

Power supply	230 V AC ±15 %, 50 Hz, optional 24 V DC ±15 % or 115 V AC ±15 %, 60 Hz
Housing	Steel sheet, optional stainless steel, Varnishing RAL 5002 ultramarine blue/RAL 7035 light grey
Protection type	IP54, optional IP65
Detailed technical data see operating instructions.	

# Series SX302

## Alphanumeric large size displays



### Readable one- or double-sided

The large size displays are offered either with a one- or a double-sided display. The versions with a double-sided display have a LED matrix on the front and on the rear side and show the same information on both sides.

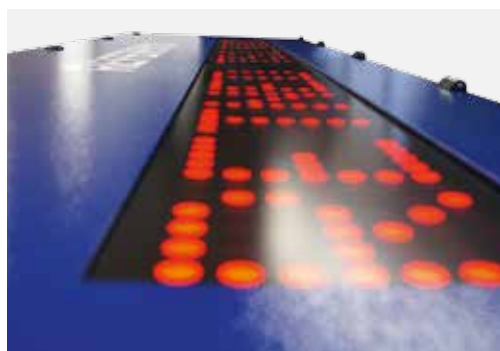
### Interfaces for industrial data communication

The large size displays support the interfaces for the industrial communication: field buses, network topologies, serial control, etc.

### Innovative details

The devices dispose of potential-free switching outputs and PLC compatible function inputs (except devices with Profibus interface). The parameterization of the devices is carried out in a menu which is shown on an internal display.

In connection with a serial data interface proceeding characters can be ignored in the data telegram to selectively evaluate the user data.





### Standard units



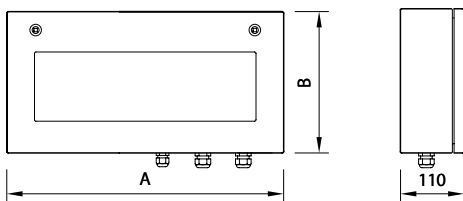
Character height		1 character	2 characters	3 characters	4 characters
50 mm	One-sided display	—	SX302-02/05/0x-100/0A>xx	SX302-03/05/0x-100/0A>xx	SX302-04/05/0x-100/0A>xx
	Double-sided display	—	SX302-02/05/0x-200/3A>xx	SX302-03/05/0x-200/3A>xx	SX302-04/05/0x-200/3A>xx
	Measures A x B	—	300 <sup>1</sup> x 185 mm	300 <sup>1</sup> x 185 mm	300 <sup>1</sup> x 185 mm
100 mm	One-sided display	SX302-01/10/0x-100/0A>xx	SX302-02/10/0x-100/0A>xx	SX302-03/10/0x-100/0A>xx	SX302-04/10/0x-100/0A>xx
	Double-sided display	SX302-01/10/0x-200/3A>xx	SX302-02/10/0x-200/3A>xx	SX302-03/10/0x-200/3A>xx	SX302-04/10/0x-200/3A>xx
	Measures A x B	330 x 245 mm	330 x 245 mm	480 x 245 mm	480 x 245 mm



Character height		5 characters	6 characters	7 characters	8 characters
50 mm	One-sided display	SX302-05/05/0x-100/0A>xx	SX302-06/05/0x-100/0A>xx	SX302-07/05/0x-100/0A>xx	SX302-08/05/0x-100/0A>xx
	Double-sided display	SX302-05/05/0x-200/3A>xx	SX302-06/05/0x-200/3A>xx	SX302-07/05/0x-200/3A>xx	SX302-08/05/0x-200/3A>xx
	Measures A x B	400 x 185 mm	400 x 185 mm	510 x 185 mm	510 x 185 mm
100 mm	One-sided display	SX302-05/10/0x-100/0A>xx	SX302-06/10/0x-100/0A>xx	SX302-07/10/0x-100/0A>xx	SX302-08/10/0x-100/0A>xx
	Double-sided display	SX302-05/10/0x-200/3A>xx	SX302-06/10/0x-200/3A>xx	SX302-07/10/0x-200/3A>xx	SX302-08/10/0x-200/3A>xx
	Measures A x B	680 x 245 mm	680 x 245 mm	870 x 245 mm	870 x 245 mm

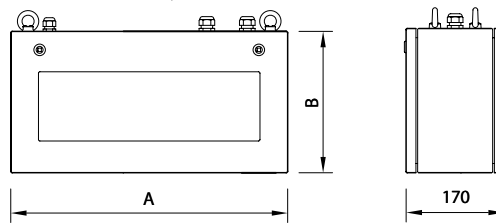
<sup>1</sup> 400 mm for units with Profibus interface

One-sided display



Dimensions in mm

Double-sided display





### Data interface

Ethernet TCP/IP	SX302-xx/xx/xx-xxx/xx-E0
Profinet	SX302-xx/xx/xx-xxx/xx-YR
Profibus DP	SX302-xx/xx/xx-xxx/xx-K0
Modbus RTU	SX302-xx/xx/xx-xxx/xx-M0
Modbus TCP/IP	SX302-xx/xx/xx-xxx/xx-YT
DeviceNet	SX302-xx/xx/xx-xxx/xx-YD
Interbus Cu	SX302-xx/xx/xx-xxx/xx-YJ
RS485/RS232	SX302-xx/xx/xx-xxx/xx-S0
20 mA TTY/RS232	SX302-xx/xx/xx-xxx/xx-T0

### LED color

Red	SX302-xx/xx/xR-xxx/xx-xx
Green	SX302-xx/xx/xG-xxx/xx-xx

### Options

Housing with two-layer coating	SX302-xx/xx/xx-x1x/xx-xx
Housing V2A (stainless steel), varnished	SX302-xx/xx/xx-x2x/xx-xx
Housing V2A (stainless steel), brushed	SX302-xx/xx/xx-x3x/xx-xx
Housing V4A (stainless steel), brushed	SX302-xx/xx/xx-x5x/xx-xx
Protection type IP65	SX302-xx/xx/xx-xx1/xx-xx
Protection type IP54 with climate control	SX302-xx/xx/xx-xx2/xx-xx
Protection type IP54 with climate control and heating	SX302-xx/xx/xx-xx4/xx-xx
Protective weather cover	SX302-xx/xx/xx-xxx/xx-xx-1011
Power supply 24 V DC	SX302-xx/xx/xx-xxx/xB-xx

### Technical data

Power supply	230 V AC ±15 %, 50 Hz, optional 24 V DC ±15 % or 115 V AC ±15 %, 60 Hz
Housing	Steel sheet, optional stainless steel, Varnishing RAL 5002 ultramarine blue/RAL 7035 light grey
Protection type	IP54, optional IP65
Detailed technical data see operating instructions.	