



Series SX502  
Alphanumeric  
large size displays



## Visible over long distances

Presentation of information over long distances, visualization of process data, operator guidance in plain language - these are typical applications for the alphanumeric large size displays of series SX502.

Designed for industrial applications, these systems have proved themselves worldwide in automation technology, production plants, transport and logistics - in all places where professional solutions are required.



## Setup menu

One of the advantages of the units is their elegant and comfortable parameterization per menu.

For the Ethernet versions also the network parameters are set in the menu (IP-address, standard gateway). External aids are not required, and afterwards the units can already be accessed via network.

## Further advantages at a glance

In the menu it can be set that after power-on an initial text is to appear automatically in the display, e. g. 'system operational'. The units feature a real-time clock with date and weekday. The current time and the current date can be inserted into a text by control commands.

In one line different character heights can be displayed. This way, next to a 100 or 120 mm high text two 50 mm high lines can be displayed, if necessary also as marquee text. Displays that have a character height of 33 mm can also display characters that are 66 or 75 mm high.

## Individual character set

The software "DisplayManager" is included in the delivery of the displays. It serves for creating and saving individual character sets or symbols and it also reads back installed character sets.

## Online- or fixed texts

The texts to be presented are sent to the display via the interface (online texts). Furthermore, the units are equipped with an internal text memory in which texts can be stored (fixed texts). Each of these texts is given an address with which it can be called up and displayed.

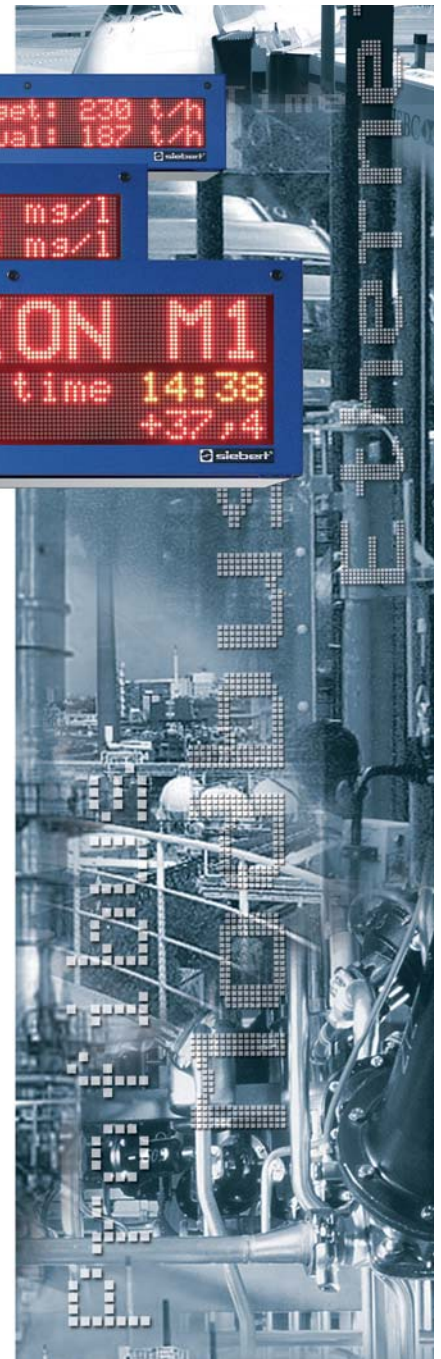


## Choice of many character sets













Pixel-optimized character sets with different character heights and attributes, among them also proportional lettering, are available. For details see page 3.

## Paging, marquee text, bar graph

Texts which contain more characters than can be presented in the display are automatically presented in paging mode. In addition, longer texts can be displayed as marquee text. Bar graph presentation is also possible.



## Series SX502 - Units with one-sided display

				
<b>Character height</b>			<b>2 x 20 digits<sup>1)</sup>, 1 x 120x16 pixels</b>	<b>2 x 40 digits<sup>1)</sup>, 1 x 240x16 pixels</b>
33/66/75 mm	LED red		SX502-220/03/0R-100/0A-... <sup>4)</sup>	SX502-240/03/0R-100/0A-...
	Dimensions (a x b x c)		700 x 210 x 130 mm	1270 x 210 x 130 mm
	Weight / Power consumption <sup>2)</sup>		approx. 12 kg / approx. 40 (65) VA	approx. 18 kg / approx. 75 (130) VA
50/100/120 mm	LED red		SX502-220/05/0R-100/0A-...	SX502-240/05/0R-100/0A-...
	Dimensions (a x b x c)		1040 x 250 x 130 mm	1960 x 250 x 130 mm
	Weight / Power consumption <sup>2)</sup>		approx. 16 kg / approx. 45 (85) VA	approx. 27 kg / approx. 85 (165) VA
				
33/66/75 mm	LED red		<b>4 x 20 digits<sup>1)</sup>, 2 x 120 x 16 pixels</b>	<b>4 x 40 digits<sup>1)</sup>, 2 x 240 x 16 pixels</b>
	Dimensions (a x b x c)		SX502-420/03/0R-100/0A-...	SX502-440/03/0R-100/0A-... <sup>3)</sup>
	Weight / Power consumption <sup>2)</sup>		700 x 300 x 130 mm	1270 x 300 x 130 mm
	Weight / Power consumption <sup>2)</sup>		approx. 14 kg / approx. 75 (130) VA	approx. 22 kg / approx. 140 (265) VA
50/100/120 mm	LED red		SX502-420/05/0R-100/0A-...	SX502-440/05/0R-100/0A-...
	Dimensions (a x b x c)		1040 x 390 x 130 mm	1960 x 390 x 130 mm
	Weight / Power consumption <sup>2)</sup>		approx. 22 kg / approx. 85 (165) VA	approx. 40 kg / approx. 170 (320) VA
				
33/66/75 mm	LED red		<b>6 x 20 digits<sup>1)</sup>, 3 x 120 x 16 pixels</b>	<b>6 x 40 digits<sup>1)</sup>, 3 x 240 x 16 pixels</b>
	Dimensions (a x b x c)		SX502-620/03/0R-100/0A-... <sup>3)</sup>	SX502-640/03/0R-100/0A-... <sup>3)</sup>
	Weight / Power consumption <sup>2)</sup>		700 x 380 x 130 mm	1270 x 380 x 130 mm
	Weight / Power consumption <sup>2)</sup>		approx. 18 kg / approx. 105 (205) VA	approx. 28 kg / approx. 210 (390) VA
50/100/120 mm	LED red		SX502-620/05/0R-100/0A-...	SX502-640/05/0R-100/5A-... <sup>3)</sup>
	Dimensions (a x b x c)		1040 x 530 x 130 mm	approx. 2020 x 710 x 170 mm
	Weight / Power consumption <sup>2)</sup>		approx. 28 kg / approx. 130 (245) VA	approx. 82 kg / approx. 250 (490) VA
				
33/66/75 mm	LED red		<b>8 x 20 digits<sup>1)</sup>, 4 x 120 x 16 pixels</b>	<b>8 x 40 digits<sup>1)</sup>, 4 x 240 x 16 pixels</b>
	Dimensions (a x b x c)		SX502-820/03/0R-100/0A-... <sup>3)</sup>	SX502-840/03/0R-100/0A-... <sup>3)</sup>
	Weight / Power consumption <sup>2)</sup>		720 x 490 x 130 mm	1290 x 490 x 130 mm
	Weight / Power consumption <sup>2)</sup>		approx. 21 kg / approx. 140 (265) VA	approx. 34 kg / approx. 280 (515) VA
50/100/120 mm	LED red		SX502-820/05/0R-100/0A-... <sup>3)</sup>	SX502-840/05/0R-100/5A-... <sup>3)</sup>
	Dimensions (a x b x c)		1060 x 680 x 130 mm	approx. 2020 x 850 x 170 mm
	Weight / Power consumption <sup>2)</sup>		approx. 35 kg / approx. 170 (335) VA	approx. 96 kg / approx. 335 (650) VA

<sup>1)</sup> Applies to character set Acala 7

<sup>2)</sup> Values in brackets apply in connection with option LED red/green/orange

<sup>3)</sup> Separately ventilated in connection with option LED red/green/orange










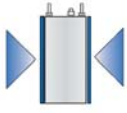


<sup>4)</sup> Not available with LEDs for outdoor application

<sup>5)</sup> Separately ventilated

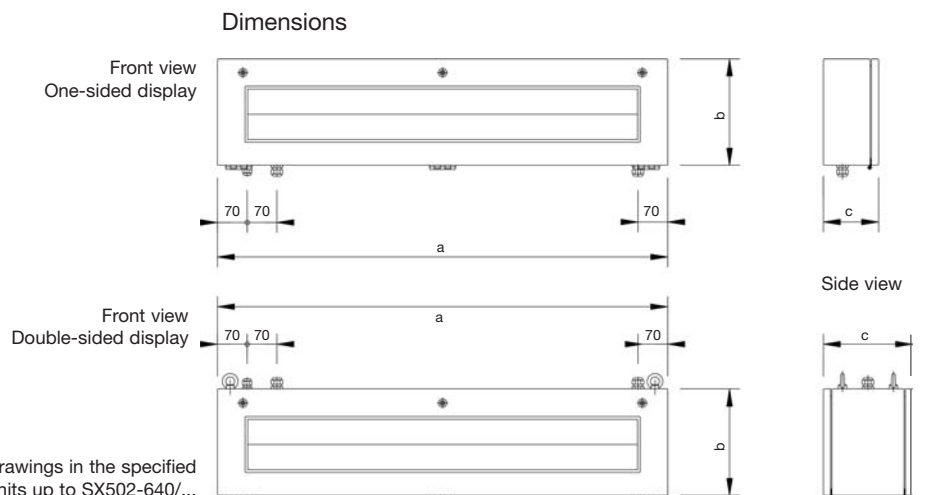
### Character set Character presentation

Acala 7	AaBbCcDdEeF fGgHhIiJjKkLlMmNnOoPpQqRrSsTtUuVvWwXxYyZz AaBbCcDdEeF fGgHhIiJjKkLlMmNnOoPpQqRrSsTtUuVvWwXxYyZz
Acala 7 extended	AaBbCcDdEeF fGgHhIiJjKkLlMm
Acala 14 condensed	AaBbCcDdEeF fGgHhIiJjKkLlMmNnOoP
Acala 14	AaBbCcDdEeF fGgHhIiJjKkLlMm
Acala 14 extended	AaBbCcDdEeF fGgH
Acala 16 condensed	AaBbCcDdEeF fGgHhIiJjKkLlMmNnOoP
Acala 16	AaBbCcDdEeF fGgHhIiJjKkLlMm
Acala 16 extended	AaBbCcDdEeF fGgH

## Series SX502 - Units with double-sided display

				
<b>Character height</b>			2 x 20 digits <sup>1)</sup> , 1 x 120 x 16 pixels	2 x 40 digits <sup>1)</sup> , 1 x 240 x 16 pixels
33/66/75 mm	LED red		SX502-220/03/OR-200/3A-...	SX502-240/03/OR-200/3A-... <sup>3)</sup>
	Dimensions (a x b x c)		700 x 210 x 240 mm	1270 x 210 x 240 mm
	Weight / Power consumption <sup>2)</sup>		approx. 17 kg / approx. 75 (130) VA	approx. 26 kg / approx. 150 (265) VA
50/100/120 mm	LED red		SX502-220/05/OR-200/3A-...	SX502-240/05/OR-200/3A-...
	Dimensions (a x b x c)		1040 x 250 x 210 mm	1960 x 250 x 210 mm
	Weight / Power consumption <sup>2)</sup>		approx. 24 kg / approx. 85 (165) VA	approx. 45 kg / approx. 170 (320) VA
				
33/66/75 mm	LED red		4 x 20 digits <sup>1)</sup> , 2 x 120 x 16 pixels	4 x 40 digits <sup>1)</sup> , 2 x 240 x 16 pixels
	Dimensions (a x b x c)		SX502-420/03/OR-200/3A-... <sup>3)</sup>	SX502-440/03/OR-200/3A-... <sup>5)</sup>
	Dimensions (a x b x c)		700 x 300 x 240 mm	1270 x 300 x 240 mm
	Weight / Power consumption <sup>2)</sup>		approx. 22 kg / approx. 140 (265) VA	approx. 34 kg / approx. 290 (525) VA
50/100/120 mm	LED red		SX502-420/05/OR-200/3A-... <sup>3)</sup>	SX502-440/05/OR-200/3A-... <sup>3)</sup>
	Dimensions (a x b x c)		1040 x 390 x 210 mm	1960 x 390 x 210 mm
	Weight / Power consumption <sup>2)</sup>		approx. 38 kg / approx. 170 (335) VA	approx. 66 kg / approx. 335 (650) VA
				
33/66/75 mm	LED red		6 x 20 digits <sup>1)</sup> , 3 x 120 x 16 pixels	6 x 40 digits <sup>1)</sup> , 3 x 240 x 16 pixels
	Dimensions (a x b x c)		SX502-620/03/OR-200/3A-... <sup>5)</sup>	SX502-640/03/OR-200/3A-... <sup>5)</sup>
	Dimensions (a x b x c)		700 x 380 x 240 mm	1270 x 380 x 240 mm
	Weight / Power consumption <sup>2)</sup>		approx. 28 kg / approx. 220 (390) VA	approx. 42 kg / approx. 425 (775) VA
50/100/120 mm	LED red		SX502-620/05/OR-200/3A-... <sup>3)</sup>	SX502-640/05/OR-200/3A-... <sup>3)</sup>
	Dimensions (a x b x c)		1040 x 530 x 210 mm	2020 x 710 x 270 mm
	Weight / Power consumption <sup>2)</sup>		approx. 47 kg / approx. 250 (490) VA	approx. 136 kg / approx. 500 (980) VA
				
33/66/75 mm	LED red		8 x 20 digits <sup>1)</sup> , 4 x 120 x 16 pixels	8 x 40 digits <sup>1)</sup> , 4 x 240 x 16 pixels
	Dimensions (a x b x c)		SX502-820/03/OR-200/3A-... <sup>5)</sup>	SX502-840/03/OR-200/3A-... <sup>5)</sup>
	Dimensions (a x b x c)		720 x 490 x 240 mm	1290 x 490 x 240 mm
	Weight / Power consumption <sup>2)</sup>		approx. 32 kg / approx. 290 (525) VA	approx. 50 kg / approx. 560 (1010) VA
50/100/120 mm	LED red		SX502-820/05/OR-200/3A-... <sup>3)</sup>	SX502-840/05/OR-200/3A-... <sup>3)</sup>
	Dimensions (a x b x c)		1060 x 680 x 210 mm	approx. 2020 x 850 x 300 mm
	Weight / Power consumption <sup>2)</sup>		approx. 65 kg / approx. 335 (660) VA	approx. 160 kg / approx. 685 (1295) VA

- 1) Applies to character set Acala 7
- 2) Values in brackets apply in connection with option LED red/green/orange
- 3) Separately ventilated in connection with option LED red/green/orange
- 4) Not available with LEDs for outdoor application
- 5) Separately ventilated







## Technical data

Power supply	230 V AC ± 15%
Line frequency	47...63 Hz
Power consumption	See type range
Housing	Sheet steel varnished, optionally stainless steel
Housing body	light grey RAL 7035
Housing front frame	ultramarine blue RAL 5002
Protection type	IP54 (optionally IP65) <sup>1)</sup>
Front panel	LED <sup>2)</sup> , red: red, non-reflecting; other LED: clear, non-reflecting
Operating temperature	0...40 °C
Storage temperature	-30...85 °C
Relative humidity	95% (non-condensing)

<sup>1)</sup> Type-dependent

<sup>2)</sup> LED, red for outdoor application: clear

## Options

LED for out door application	SX502-xx/xx/2x-xxx/xx-xx
LED red/green/orange <sup>1)</sup>	SX502-xx/xx/xM-xxx/xx-xx
More colors on request	
Housing sheet steel, bilayer painting	SX502-xx/xx/xx-x1x/xx-xx
Housing sheet steel V2A (stainless steel), coated	SX502-xx/xx/xx-x2x/xx-xx
Housing sheet steel V2A (stainless steel), brushed	SX502-xx/xx/xx-x3x/xx-xx
Housing sheet steel V4A (stainless steel), brushed	SX502-xx/xx/xx-x5x/xx-xx
Protection type IP65 <sup>2)</sup>	SX502-xx/xx/xx-xx1/xx-xx
Protection type IP54 with climate adjustment	SX502-xx/xx/xx-xx2/xx-xx
Prot. type IP54 with climate adjustment and heating	SX502-xx/xx/xx-xx4/xx-xx

<sup>1)</sup> Not available with LEDs for outdoor application

<sup>2)</sup> Not available for all device types

## Interfaces

Ethernet TCP/IP	SX502-xxx/xx/xx-xxx/xx-E0
Modbus RTU	SX502-xxx/xx/xx-xxx/xx-M0
Parallel	SX502-xxx/xx/xx-xxx/xx-P0
Profibus-DP	SX502-xxx/xx/xx-xxx/xx-K0
Serial RS232/RS485	SX502-xxx/xx/xx-xxx/xx-S0

Moreore interfaces available on request

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Automotive industry  
Chemicals &  
Pharmaceuticals  
Transport & Logistics  
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plant engineering  
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