Series XC50/XC55
LED Matrix Displays

- Integrated web server
- Object-oriented layout design
- Protocol-independent communication in industrial networks

Technical perfection

Designed for professional applications in industrial environments, the LED matrix displays of the XC50/XC55 series set a new standard with their superior technology and innovative details. The user can choose from an extensive range of ready-to-connect and easy-to-mount devices.

Freely configurable LED matrix

Texts, numbers and graphics can be displayed on the LED matrix in brilliant colors. Graphics, symbols and pictograms can be integrated as bitmap or PNG. The LED matrix is characterized by high luminosity, durability and a large reading angle.

Typographically designed fonts

A special feature are the typographically designed fonts with narrow, normal and bold fonts. They provide a print-like typeface and enable the ergonomically perfect presentation of information. Cyrillic, Greek and Arabic characters can also be displayed.

Typical applications

- Process visualization, user guidance
- Andon Boards
- Visualization of production data
- Digital signage
- Traffic control technology, car park systems
- Logistics and truck call systems
- Building automation
- Energy and environment

Easy to assemble construction

The devices are characterized by a professional industrial design. Quick-release fasteners on the housings provide convenient access to all connections and components.

The devices shown are partly equipped with a weather protection cover (option). It protects the devices from rain, snow and ice as well as from heat-up by solar radiation and is recommended for outdoor devices.

Intelligent features

Integrated web server

An innovative feature of the XC50/XC55 series is the integrated web server. It enables convenient parameterization of the devices via a standard web browser from a PC or mobile device without the need to install PC software. The information to be displayed can also be entered manually via the web interface.
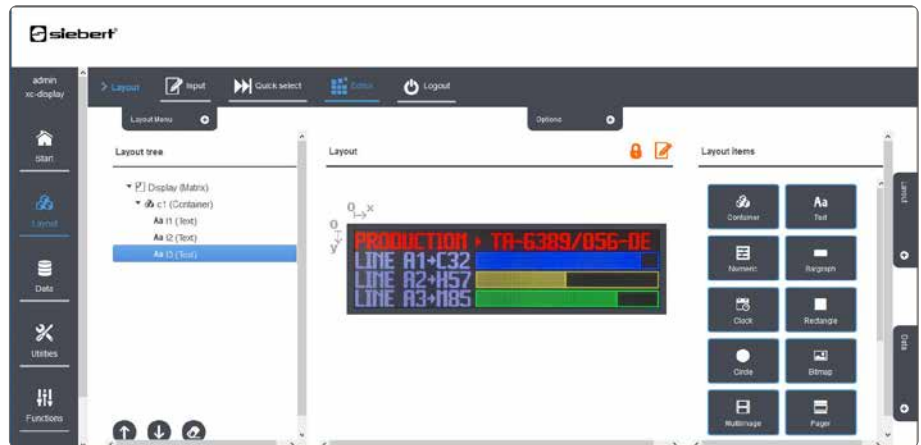
Object-oriented control

An advantage of the object-oriented control is the separation of layout and data. Layout objects (display fields) are defined on the matrix, e.g. for texts, numerical information, graphics (BMP, PNG), luminous indicator fields, bar graphs, date/time formats as well as time/date counting.

Position, size and level of the layout objects are freely selectable. All objects can be controlled independently from each other. The formatting (color, font, background, color change, blinking, etc.) can be set individually for each object and are automatically assigned to the user data. If, for example a color change is preset when the threshold value is exceeded, it is carried out automatically and without a special command.

Remote access

The current displayed information can be called up in photorealistic form via the network or the Internet, status information can also be requested, data can be entered and parameters can be changed.

Ethernet and WLAN

The devices can be controlled via their Ethernet interface. Optionally they can additionally be controlled via WLAN IEEE 802.11 b/g/n (see page 14). Ethernet and WLAN can be used at the same time.

Layout Editor

The devices offer a variety of predefined layouts. In addition, the layout editor offers the comfortable design of individual layouts.

Smart control in Profinet environments

The integrated PLC connector cyclically interrogates the information to be displayed in the web server of the PLC
with HTTP and displays them on the LED matrix. The programming is done by transferring two files generated by the display.
If several devices are integrated this does not increase the number of participants in the network.

Power Saving

The LED matrix can be darkened for individually programmable weekdays to reduce the energy consumption.
The web server remains active in the background, so that the JSON interface and the PLC connector remain accessible.

Optimal safety by user management

The user rights management allows individual access and administrator rights.
The access control over the web server is carried out via the user authentication.

Potential-free switching output

External peripheral units, such as signal transmitters, traffic lights, etc. can be controlled using the JSON protocol
or manually via the web site with a potential-free switching output.

Text and graphics memory

The devices have a memory in which texts and graphics can be stored with an address.
To display them on the LED matrix, just call up the corresponding address, without having to send the data again.

Type program

Series XC50 – Indoor devices

The XC50 series is designed for indoor application. One- and double-sided readable displays are offered. The displays readable from one side have a LED matrix on the front, the displays readable from two sides have a LED matrix on the front and on the back.

The displays that can be read from one side are for wall mounting with cable entry on the bottom of the housing. The displays readable from two sides are for pendant mounting with cable entry on the top of the housing.

Series XC55 – Outdoor devices

The XC55 series is designed for outdoor use. It has a daylight capable LED matrix with automatic brightness control. The minimum and maximum brightness are individually adjustable. The housings have a weatherproof lacquer finish, in addition an integrated heater and a pressure compensation element ensure that no condensation water can occur in the housing with temperature fluctuations.

The displays are for wall mounting with cable entry on the bottom of the housing and have side ventilation grills.

The matrix P4 has a pixel pitch of 4 mm, the matrix P8 has a pixel pitch of 8 mm. Possible font sizes see page 13.

The matrix P8 has a pixel pitch of 8 mm, the matrix P16 has a pixel pitch of 16 mm. Possible font sizes see page 13.

Optional weather protection covers are available. They protect the devices from rain, snow and ice as well as from heat-up by solar radiation (see page 15).

Series XC50 - Indoor devices
Matrix P4 (pixel pitch 4 mm)

Type designation	One-sided display	XC50-128.032.C1-A4A1-E1	XC50-192.032.C1-A4A1-E1	XC50-256.032.C1-A4A1-E1
	Double-sided display	XC50-128.032.C2-A4D1-E1	XC50-192.032.C2-A4D1-E1	XC50-256.032.C2-A4D1-E1
LED matrix (resolution)		128 x 32 pixel	192 x 32 pixel	256 x 32 pixel
Display range		4 lines with 28 mm character height[1]		
		2 lines with 55 mm character height[1]		
		1 line with 120 mm character height[1]		
Width x Height x Depth [mm]		640 x 280 x 90 (170)[2]	900 x 280 x 90 (170)[2]	1150 x 280 x 90 (170)[2]

Type designation	One-sided display	XC50-128.064.C1-A4A1-E1	XC50-192.064.C1-A4A1-E1	XC50-256.064.C1-A4A1-E1
	Double-sided display	XC50-128.064.C2-A4D1-E1	XC50-192.064.C2-A4D1-E1	XC50-256.064.C2-A4D1-E1
LED matrix (resolution)		128 x 64 pixel	192 x 64 pixel	256 x 64 pixel
Display range		8 lines with 28 mm character height[1]		
		4 lines with 55 mm character height[1]		
		2 lines with 120 mm character height[1]		
Width x Height x Depth [mm]		640 x 410 x 90 (170)[2]	900 x 410 x 90 (170)[2]	1150 x 410 x 90 (170)[2]

Type designation	One-sided display	XC50-256.096.C1-A4A1-E1
LED matrix (resolution)		256 x 96 pixel
Display range		12 lines with 28 mm character height[1]
		6 lines with 55 mm character height[1]
		3 lines with 120 mm character height[1]
Width x Height x Depth [mm]		1150 x 540 x 90

Type designation	One-sided display	XC50-256.128.C1-A4A1-E1
LED matrix (resolution)		256 x 128 pixel
Display range		16 lines with 28 mm character height[1]
		8 lines with 55 mm character height[1]
		4 lines with 120 mm character height[1]
Width x Height x Depth [mm]		1150 x 670 x 90

[1] The numbers of characters per line depends on the selected font (see page 13).
[2] Values in brackets apply for devices with double-sided display.

Series XC50 - Indoor devices
Matrix P8 (pixel pitch 8 mm)

Type designation	One-sided display	XC50-064.016.G1-A4A1-E1	XC50-096.016.G1-A4A1-E1	XC50-128.016.G1-A4A1-E1
	Double-sided display	XC50-064.016.G2-A4D1-E1	XC50-096.016.G2-A4D1-E1	XC50-128.016.G2-A4D1-E1
LED matrix (resolution)		64 x 16 pixel	96 x 16 pixel	128 x 16 pixel
Display range		2 lines with 55 mm character height		
		1 line with 110 mm character height[1]		
Width x Height x Depth [mm]		640 x 280 x 90 (170)[2]	900 x 280 x 90 (170)[2]	1150 x 280 x 90 (170)[2]

Type designation	One-sided display	XC50-192.016.G1-A4A1-E1	XC50-256.016.G1-A4A1-E1
	Double-sided display	XC50-192.016.G2-A4D1-E1	XC50-256.016.G2-A4D1-E1
LED matrix (resolution)		192 x 16 pixel	256 x 16 pixel
Display range		2 lines with 55 mm character height[1]	
		1 line with 110 mm character height[1]	
Width x Height x Depth [mm]		1660 x 280 x 90 (170)[2]	2180 x 280 x 90 (170)[2]

Type designation	One-sided display	XC50-064.032.G1-A4A1-E1	XC50-096.032.G1-A4A1-E1	XC50-128.032.G1-A4A1-E1
	Double-sided display	XC50-064.032.G2-A4D1-E1	XC50-096.032.G2-A4D1-E1	XC50-128.032.G2-A4D1-E1
LED matrix (resolution)		64 x 32 pixel	96 x 32 pixel	128 x 32 pixel
Display range		4 lines with 55 mm character height[1]		
		2 lines with 110 mm character height[1]		
		1 line with 240 mm character height[1]		
Width x Height x Depth [mm]		640 x 410 x 90 (170)[2]	900 x 410 x 90 (170)[2]	1150 x 410 x 90 (170)[2]

Type designation	One-sided display	XC50-192.032.G1-A4A1-E1	XC50-256.032.G1-A4A1-E1
	Double-sided display	XC50-192.032.G2-A4D1-E1	XC50-256.032.G2-A4D1-E1
LED matrix (resolution)		192 x 32 pixel	256 x 32 pixel
Display range		4 lines with 55 mm character height[1]	
		2 lines with 110 mm character height[1]	
		1 line with 240 mm character height[1]	
Width x Height x Depth [mm]		1660 x 410 x 90 (170)[2]	2180 x 410 x 90 (170)[2]

[1] The numbers of characters per line depends on the selected font (see page 13).
[2] Values in brackets apply for devices with double-sided display.

Type designation	One-sided display	XC50-128.048.G1-A4A1-E1	XC50-192.048.G1-A4F1-E1	XC50-256.048.G1-A4F1-E1
	Double-sided display	XC50-128.048.G2-A4D1-E1	XC50-192.048.G2-A4D1-E1	XC50-256.048.G2-A4D1-E1
LED matrix (resolution)		128 x 48 pixel	192 x 48 pixel	256 x 48 pixel
Display range		6 lines with 55 mm character height[1]		
		3 lines with 110 mm character height[1]		
Width x Height x Depth [mm]		1150 x 540 x 90 (170)[2]	1750 x 680 x 130 (270)[2]	2260 x 680 x 130 (270)[2]

Type designation	One-sided display	XC50-128.064.G1-A4A1-E1	XC50-192.064.G1-A4F1-E1	XC50-256.064.G1-A4F1-E1
	Double-sided display	XC50-128.064.G2-A4D1-E1	XC50-192.064.G2-A4D1-E1	XC50-256.064.G2-A4D1-E1
LED matrix (resolution)		128 x 64 pixel	192 x 64 pixel	256 x 64 pixel
Display range		8 lines with 55 mm character height[1]		
		4 lines with 110 mm character height[1]		
		2 lines with 240 mm character height[1]		
Width x Height x Depth [mm]		1150 x 670 x 90 (170)[2]	1750 x 810 x 130 (270)[2]	2260 x 810 x 130 (270)[2]

Type designation	One-sided display	XC50-256.096.G1-A4F1-E1[3]
LED matrix (resolution)		256 x 96 pixel
Display range		12 lines with 55 mm character height[1]
		6 lines with 110 mm character height[1]
		3 lines with 240 mm character height[1]
Width x Height x Depth [mm]		2260 x 1070 x 130

Type designation	One-sided display	XC50-256.128.G1-A4D1-E1[3]
LED matrix (resolution)		256 x 128 pixel
Display range		16 lines with 55 mm character height[1]
		8 lines with 110 mm character height[1]
		4 lines with 240 mm character height[1]
Width x Height x Depth [mm]		2260 x 1330 x 150

[1] The numbers of characters per line depends on the selected font (see page 13).
[2] Values in brackets apply for devices with double-sided display.
[3] Wall or pendant mounting, cable entry on the top of the housing.

Series XC55 - Outdoor devices
Matrix P8 (pixel pitch 8 mm)

Type designation	XC55-064.016.G1-C4A2-E1	XC55-096.016.G1-C4A2-E1	XC55-128.016.G1-C4A2-E1
LED matrix (resolution)	64 x 16 pixel	96 x 16 pixel	128 x 16 pixel
Display range	2 lines with 55 mm character height[1]		
	1 line with 110 mm character height[1]		
Width x Height x Depth [mm]	600 x 235 x 150	860 x 235 x 150	1110 x 235 x 150

Type designation	XC55-192.016.G1-C4A2-E1	XC55-256.016.G1-C4A2-E1
LED matrix (resolution)	192 x 16 Pixel	256 x 16 Pixel
Display range	2 lines with 55 mm character height[1]	
	1 line with 110 mm character height[1]	
Width x Height x Depth [mm]	1620 x 235 x 150	2140 x 235 x 150

Type designation	XC55-064.032.G1-C4A2-E1	XC55-096.032.G1-C4A2-E1	XC55-128.032.G1-C4A2-E1
LED matrix (resolution)	64 x 32 pixel	96 x 32 pixel	128 x 32 pixel
Display range	4 lines with 55 mm character height[1]		
	2 lines with 110 mm character height[1]		
	1 line with 240 mm character height[1]		
Width x Height x Depth [mm]	600 x 360 x 150	860 x 360 x 150	1110 x 360 x 150

Type designation	XC55-192.032.G1-C4A2-E1	XC55-256.032.G1-C4A2-E1
LED matrix (resolution)	192 x 32 pixel	256 x 32 pixel
Display range	4 lines with 55 mm character height[1]	
	2 lines with 110 mm character height[1]	
	1 line with 240 mm character height[1]	
Width x Height x Depth [mm]	1620 x 360 x 150	2140 x 360 x 150

[1] The numbers of characters per line depends on the selected font (see page 13).
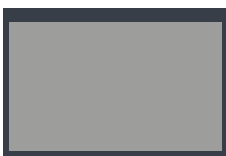
Type designation	XC55-128.048.G1-C4A2-E1	XC55-192.048.G1-C4A2-E1	XC55-256.048.G1-C4A2-E1
LED matrix (resolution)	128 x 48 pixel	192 x 48 pixel	256 x 48 pixel
Display range	6 lines with 55 mm character height[1]		
	3 lines with 110 mm character height[1]		
Width x Height x Depth [mm]	1110 x 490 x 150	1690 x 530 x 170	2200 x 530 x 170

Type designation	XC55-128.064.G1-C4A2-E1	XC55-192.064.G1-C4A2-E1	XC55-256.064.G1-C4A2-E1
LED matrix (resolution)	128 x 64 pixel	192 x 64 pixel	256 x 64 pixel
Display range	8 lines with 55 mm character height[1]		
	4 lines with 110 mm character height[1]		
	2 lines with 240 mm character height[1]		
Width x Height x Depth [mm]	1110 x 620 x 150	1690 x 660 x 170	2200 x 660 x 170

Type designation	XC55-256.096.G1-C4E2-E1[2]
LED matrix (resolution)	256 x 96 pixel
Display range	12 lines with 55 mm character height[1]
	6 lines with 110 mm character height[1]
	3 lines with 240 mm character height[1]
Width x Height x Depth [mm]	2200 x 920 x 204

Type designation	XC55-256.128.G1-C4E2-E1[2]
LED matrix (resolution)	256 x 128 pixel
Display range	16 lines with 55 mm character height[1]
	8 lines with 110 mm character height[1]
	4 lines with 240 mm character height[1]
Width x Height x Depth [mm]	2200 x 1180 x 204

[1] The numbers of characters per line depends on the selected font (see page 13).
[2] Housings with rear doors and ventilation grills, rear or pendant mounting.

Series XC55 - Outdoor devices
Matrix P16 (pixel pitch 16 mm)

Type designation	XC55-032.016.P1-C4A2-E1	XC55-048.016.P1-C4A2-E1	XC55-064.016.P1-C4A2-E1
LED matrix (resolution)	32 x 16 Pixel	48 x 16 Pixel	64 x 16 Pixel
Display range	1 line with 220 mm character height[1]		
Width x Height x Depth [mm]	600 x 360 x 150	860 x 360 x 150	1110 x 360 x 150

Type designation	XC55-096.016.P1-C4A2-E1	XC55-128.016.P1-C4A2-E1
LED matrix (resolution)	96 x 16 Pixel	128 x 16 Pixel
Display range	1 line with 220 mm character height[1]	
Width x Height x Depth [mm]	1620 x 360 x 150	2140 x 360 x 150

Type designation	XC55-064.032.P1-C4A2-E1	XC55-096.032.P1-C4A2-E1	XC55-128.032.P1-C4A2-E1
LED matrix (resolution)	64 x 32 Pixel	96 x 32 Pixel	128 x 32 Pixel
Display range	2 lines with 220 mm character height[1]		
	1 line with 480 mm character height[1]		
Width x Height x Depth [mm]	1110 x 620 x 150	1690 x 660 x 170	2200 x 660 x 170

Type designation	XC55-128.048.P1-C4E2-E1[2]
LED matrix (resolution)	128 x 48 Pixel
Display range	3 lines with 220 mm character height[1]
Width x Height x Depth [mm]	2200 x 920 x 204

Type designation	XC55-128.064.P1-C4E2-E1[2]
LED matrix (resolution))	128 x 64 Pixel
Display range	4 lines with 220 mm character height[1]
	2 lines with 480 mm character height[1]
Width x Height x Depth mm]	2200 x 1180 x 204

[1] The numbers of characters per line depends on the selected font (see page 13).
[2] Housings with rear doors and ventilation grills, rear or pendant mounting.

Fonts

The devices have typographically designed fonts. As in office programs, they provide a graphically and ergonomically perfect presentation of information, with narrow normal and bold fonts.

7 pixel high fonts	Metric 7 Regular	XC series – the new standard
	Aryana 7 Regular	XC series – the new standard
	Aryana 7 Bold	XC series – the new standard

14 pixel high fonts	Metric 14 Regular	XC series – that's innovation
	Aryana 14 Condensed	XC series – that's innovation
	Aryana 14 Regular	XC series – that's innovation
	Aryana 14 Bold	XC series – that's innovation

| 30 pixel high fonts | Metric 30 Regular | Industry 4.0 |
| | Aryana 30 Regular | Industry 4.0 |

The fonts «Metric» show each character with the same width (equidistant fonts).
The fonts «Aryana» are proportional fonts (recommended) and show each character only with the actually needed width – so one line can display more characters, as shown in the font samples above.

The following table shows how many characters can be displayed in one line, depending on the font selected.
The actual number of characters depends on the text to be displayed. The specifications are guide values.

Width of the LED matrix	32 pixel	64 pixel	96 pixel	128 pixel	192 pixel	256 pixel
Aryana 7 Regular	6	13	19	26	39	52
Aryana 7 Bold	4	9	14	19	28	37
Metric 7 Regular	5	10	16	21	32	42
Aryana 14 Condensed	5	9	14	19	29	39
Aryana 14 Regular	4	8	13	17	26	35
Aryana 14 Bold	3	7	10	14	20	27
Metric 14 Regular	3	7	10	14	21	28
Aryana 30 Regular	2	4	6	8	13	17
Metric 30 Regular	2	4	6	8	12	16

Depending on the pixel pitch of the LED matrix there are the following character heights:

Font	Matrix P4	Matrix P8	Matrix P16
Aryana 7, Metric 7	28 mm	55 mm	–
Aryana 14, Metric 14	55 mm	110 mm	220 mm
Aryana 30, Metric 30	120 mm	240 mm	480 mm

Options

The devices are optimized for professional use.
For further requirements corresponding options are possible.

Options for indoor devices

Control	Standard	Ethernet	
	Optional	Additionally WLAN IEEE 802.11 b/g/n	XC50-xxx.xxx.xx-xxxx-W1
Housing	Standard	Steel sheet powder coated	
	Optional	Stainless steel V2A brushed (material 1.4301)	XC50-xxx.xxx.xx-Exxx-xx
		Stainless steel V2A powder coated (material 1.4301)	XC50-xxx.xxx.xx-Gxxx-xx
		Stainless steel V4A brushed (material 1.4571)	XC50-xxx.xxx.xx-Kxxx-xx
		Stainless steel V4A powder coated (material 1.4571)	XC50-xxx.xxx.xx-Mxxx-xx
Protection type	Standard	IP54	
	Optional	IP65	XC50-xxx.xxx.xx-x6xx-xx
Mounting	Standard	See page 6	
	Optional	Displays readable from one side: Pendant mounting, cable entry on the top of the housing (except XC50-192.048.G1-xxxx-xx, XC50-192.064.G1-xxxx-xx, XC50-256.048.G1-xxxx-xx, XC50-256.064.G1-xxxx-xx, XC50-256.096.G1-xxxx-xx und XC50-256.128.G1-xxxx-xx)	XC50-xxx.xxx.xx-xxFx-xx

Options for outdoor devices

Control	Standard	Ethernet	
	Optional	Additionally WLAN IEEE 802.11 b/g/n	XC55-xxx.xxx.xx-xxxx-W1
Housing	Standard	Steel sheet, electrolytically galvanized, weatherproof two-layer powder coating	
	Optional	Stainless steel V2A powder coated (material 1.4301)	XC55-xxx.xxx.xx-Gxxx-xx
		Stainless steel V4A powder coated (material 1.4571)	XC55-xxx.xxx.xx-Mxxx-xx
Power supply	Standard	230 V AC ± 15 %, 50/60 Hz	
	Optional	115 V AC ± 15 %, 50/60 Hz	XC55-xxx.xxx.xx-xxx3-xx

Weather protection cover

For outdoor devices (series XC55) a weather protection cover
is recommended. It protects the devices from rain, snow, ice
as well as from heat-up by solar radiation.

The following figure shows unit version XC55-128.032.C4A2-xx with weather protection cover
representing the other devices listed in the table. Dimensions in mm. The weights are approximate values in kg.
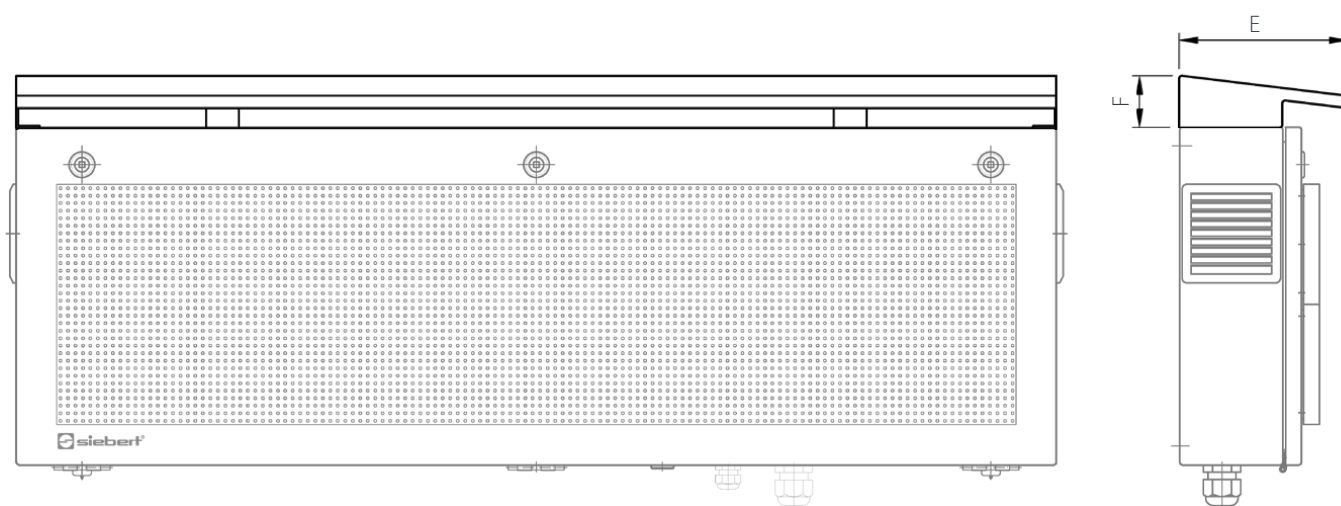
| Weather protection cover	Width	Suitable for unit version	E	F	Weight
XCA100-060K-C	600	XC55-064.016.G1-xxxx-xx, XC55-064.032.G1-xxxx-xx, XC55-032.016.P1-xxxx-xx	180	55	4
XCA100-086K-C	860	XC55-096.016.G1-xxxx-xx, XC55-096.032.G1-xxxx-xx, XC55-048.016.P1-xxxx-xx	180	55	5
XCA100-111K-C	1110	XC55-128.016.G1-xxxx-xx, XC55-128.032.G1-xxxx-xx, XC55-128.048.G1-xxxx-xx, XC55-128.064.G1-xxxx-xx, XC55-064.016.P1-xxxx-xx, XC55-064.032.P1-xxxx-xx	180	55	6
XCA100-162K-C	1620	XC55-192.016.G1-xxxx-xx, XC55-192.032.G1-xxxx-xx, XC55-096.016.P1-xxxx-xx	180	55	8
XCA100-214K-C	2140	XC55-256.016.G1-xxxx-xx, XC55-256.032.G1-xxxx-xx, XC55-128.016.P1-xxxx-xx	180	55	11
XCA100-169L-C	1690	XC55-192.048.G1-xxxx-xx, XC55-192.064.G1-xxxx-xx, XC55-096.032.P1-xxxx-xx	200	65	11
XCA100-220L-C	2200	XC55-256.048.G1-xxxx-xx, XC55-256.064.G1-xxxx-xx, XC55-128.032.P1-xxxx-xx	200	65	13
XCA100-220N-C	2200	XC55-256.096.G1-xxxx-xx, XC55-256.128.G1-xxxx-xx, XC55-128.048.P1-xxxx-xx, XC55-128.064.P1-xxxx-xx	200	85	15

Version		
Standard	Steel sheet, electrolytically galvanized, weatherproof two-layer powder coating	
Optional	Stainless steel V2A powder coated (material 1.4301)	XCA100-xxxx-G
	Stainless steel V4A powder coated (material 1.4571)	XCA100-xxxx-M

Dimensions and weights

Series XC50 – Indoor devices, readable from one side

The following figure shows unit version XC50-096.032.G1-xxAx-xx representing the other devices listed in the table. Dimensions in mm. The weights are approximate values in kg.
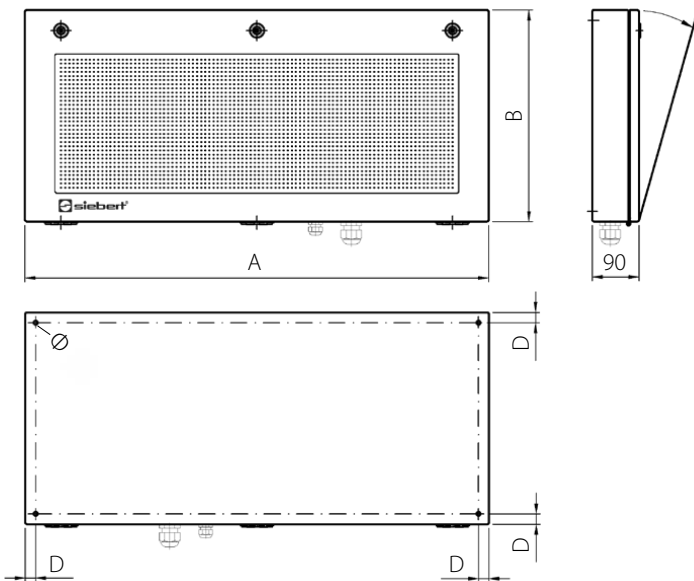
Devices with matrix P4	A	B	D	Ø	Weight
XC50-128.032.C1-xxAx-xx	640	280	16	7	9
XC50-192.032.C1-xxAx-xx	900	280	16	7	12
XC50-256.032.C1-xxAx-xx	1150	280	20	9	16
XC50-128.064.C1-xxAx-xx	640	410	16	7	13
XC50-192.064.C1-xxAx-xx	900	410	20	9	17
XC50-256.064.C1-xxAx-xx	1150	410	20	9	21
XC50-256.096.C1-xxAx-xx	1150	540	25	11	27
XC50-256.128.C1-xxAx-xx	1150	670	25	11	32

Devices with matrix P8	A	B	D	Ø	Weight
XC50-064.016.G1-xxAx-xx	640	280	16	7	9
XC50-096.016.G1-xxAx-xx	900	280	16	7	12
XC50-128.016.G1-xxAx-xx	1150	280	20	9	16
XC50-192.016.G1-xxAx-xx	1660	280	20	9	24
XC50-256.016.G1-xxAx-xx	2180	280	25	11	32
XC50-064.032.G1-xxAx-xx	640	410	16	7	13
XC50-096.032.G1-xxAx-xx	900	410	20	9	17
XC50-128.032.G1-xxAx-xx	1150	410	20	9	22
XC50-192.032.G1-xxAx-xx	1660	410	25	11	32
XC50-256.032.G1-xxAx-xx	2180	410	25	11	42
XC50-128.048.G1-xxAx-xx	1150	540	25	11	28
XC50-128.064.G1-xxAx-xx	1150	670	25	11	34

The following figure shows unit version XC50-192.048.G1-xxEx-xx representing the other devices listed in the table. Dimensions in mm. The weights are approximate values in kg.
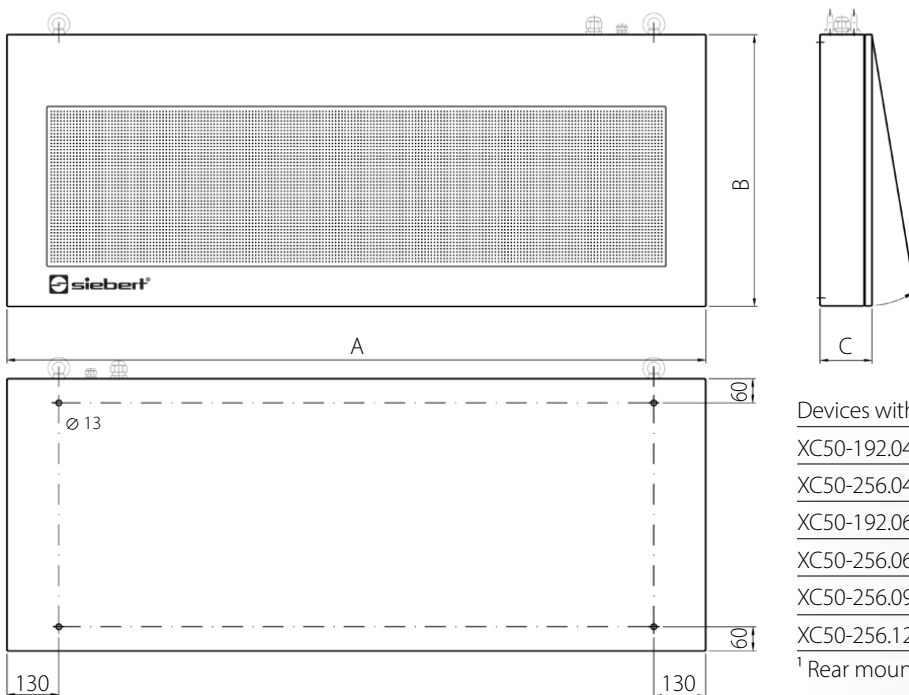
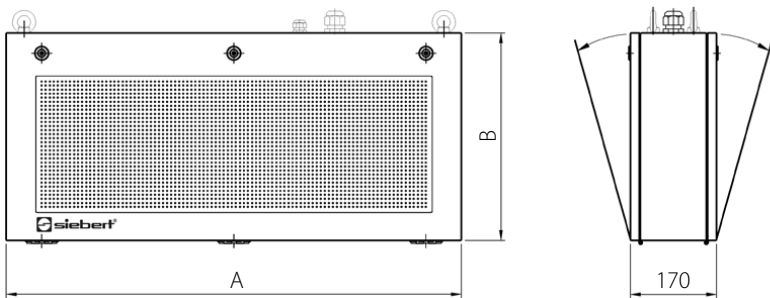| Devices with matrix P8	A	B	C	Weight
XC50-192.048.G1-xxFx-xx	1750	680	130	73
XC50-256.048.G1-xxFx-xx	2260	680	130	96
XC50-192.064.G1-xxFx-xx	1750	810	130	89
XC50-256.064.G1-xxFx-xx	2260	810	130	115
XC50-256.096.G1-xxFx-xx[1]	2260	1070	130	180
XC50-256.128.G1-xxDx-xx[1]	2260	1330	150	220

[1] Rear mounting holes Ø13 not existent.

Indoor devices, readable from two sides

The following figure shows unit version XC50-096.032.G2-xxDx-xx representing the other devices listed in the table.
Dimensions in mm. The weights are approximate values in kg.

Devices with matrix P4	A	B	Weight
XC50-128.032.C2-xxDx-xx	640	280	14
XC50-192.032.C2-xxDx-xx	900	280	17
XC50-256.032.C2-xxDx-xx	1150	280	23
XC50-128.064.C2-xxDx-xx	640	410	19
XC50-192.064.C2-xxDx-xx	900	410	25
XC50-256.064.C2-xxDx-xx	1150	410	31

Devices with matrix P8	A	B	Weight
XC50-064.016.G2-xxDx-xx	640	280	14
XC50-096.016.G2-xxDx-xx	900	280	18
XC50-128.016.G2-xxDx-xx	1150	280	24
XC50-192.016.G2-xxDx-xx	1660	280	36
XC50-256.016.G2-xxDx-xx	2180	280	48
XC50-064.032.G2-xxDx-xx	640	410	20
XC50-096.032.G2-xxDx-xx	900	410	26
XC50-128.032.G2-xxDx-xx	1150	410	33
XC50-192.032.G2-xxDx-xx	1660	410	48
XC50-256.032.G2-xxDx-xx	2180	410	63
XC50-128.048.G2-xxDx-xx	1150	540	42
XC50-128.064.G2-xxDx-xx	1150	670	51

The following figure shows unit version XC50-192.048.G2-xxDx-xx representing the other devices listed in the table.
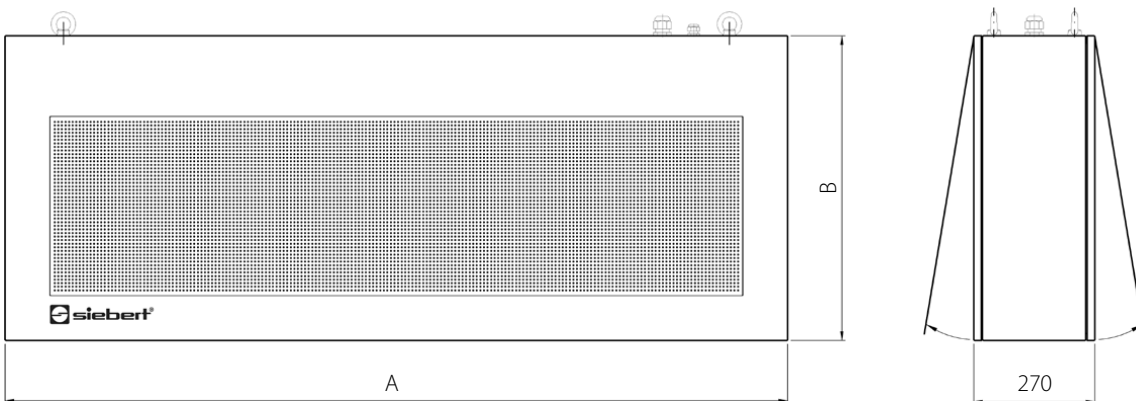Dimensions in mm. The weights are approximate values in kg.

Devices with matrix P8	A	B	Weight
XC50-192.048.G2-xxDx-xx	1750	680	110
XC50-256.048.G2-xxDx-xx	2260	680	144
XC50-192.064.G2-xxDx-xx	1750	810	134
XC50-256.064.G2-xxDx-xx	2260	810	173

Series XC55 – Outdoor devices

The following figure shows unit version XC55-096.032.G1-xxAx-xx representing the other devices listed in the table. Dimensions in mm. The weights are approximate values in kg.
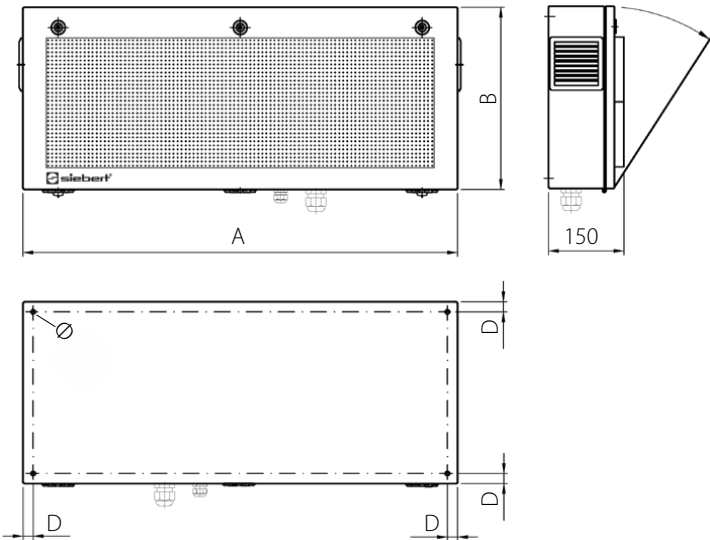
Devices with matrix P8	A	B	D	Ø	Weight
XC55-064.016.G1-xxAx-xx	600	235	16	7	9
XC55-096.016.G1-xxAx-xx	860	235	16	7	12
XC55-128.016.G1-xxAx-xx	1110	235	20	9	16
XC55-192.016.G1-xxAx-xx	1620	235	20	9	24
XC55-256.016.G1-xxAx-xx	2140	235	25	11	32
XC55-064.032.G1-xxAx-xx	600	360	16	7	13
XC55-096.032.G1-xxAx-xx	860	360	20	9	17
XC55-128.032.G1-xxAx-xx	1110	360	20	9	22
XC55-192.032.G1-xxAx-xx	1620	360	25	11	32
XC55-256.032.G1-xxAx-xx	2140	360	25	11	42
XC55-128.048.G1-xxAx-xx	1110	490	25	11	28
XC55-128.064.G1-xxAx-xx	1110	620	25	11	34

Devices with matrix P16	A	B	D	Ø	Weight
XC55-032.016.P1-xxAx-xx	600	360	16	7	13
XC55-048.016.P1-xxAx-xx	860	360	20	9	17
XC55-064.016.P1-xxAx-xx	1110	360	20	9	23
XC55-096.016.P1-xxAx-xx	1620	360	25	11	33
XC55-128.016.P1-xxAx-xx	2140	360	25	11	43
XC55-064.032.P1-xxAx-xx	1110	620	25	11	35

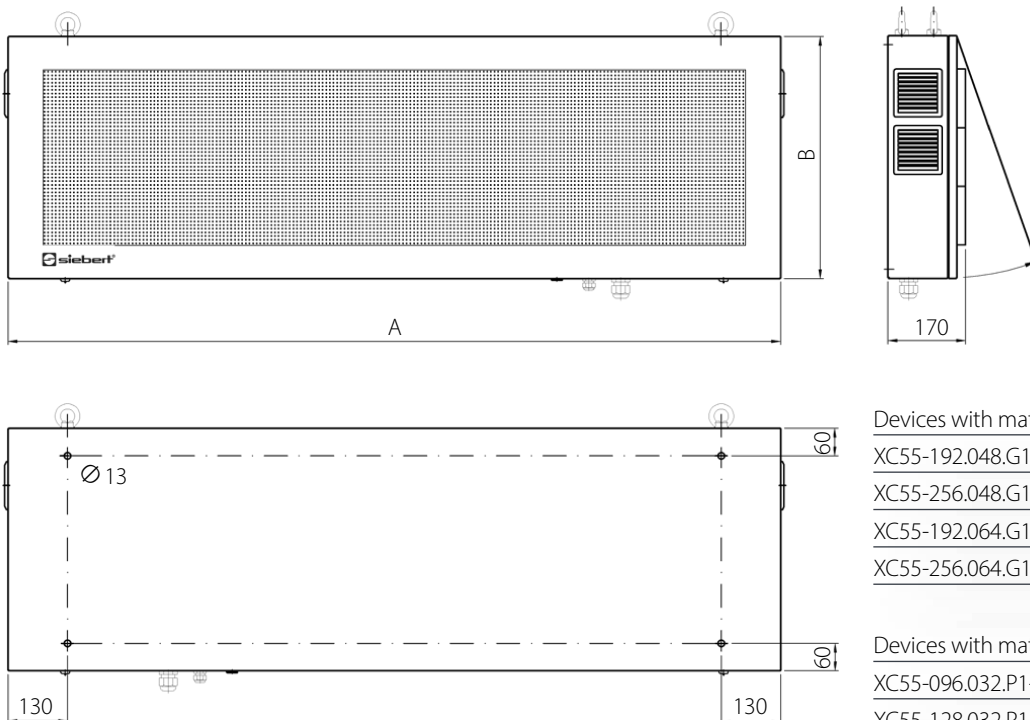The following figure shows unit version XC55-192.048.G1-xxEx-xx representing the other devices listed in the table. Dimensions in mm. The weights are approximate values in kg.

Devices with matrix P8	A	B	Weight
XC55-192.048.G1-xxEx-xx	1690	530	58
XC55-256.048.G1-xxEx-xx	2200	530	75
XC55-192.064.G1-xxEx-xx	1690	660	72
XC55-256.064.G1-xxEx-xx	2200	660	93

Devices with matrix P16	A	B	Weight
XC55-096.032.P1-xxEx-xx	1690	660	74
XC55-128.032.P1-xxEx-xx	2200	660	96

The following figure shows unit version XC55-256.096.G1-xxEx-xx representing the other devices listed in the table. Dimensions in mm. The weights are approximate values in kg.

Rear view

Top view
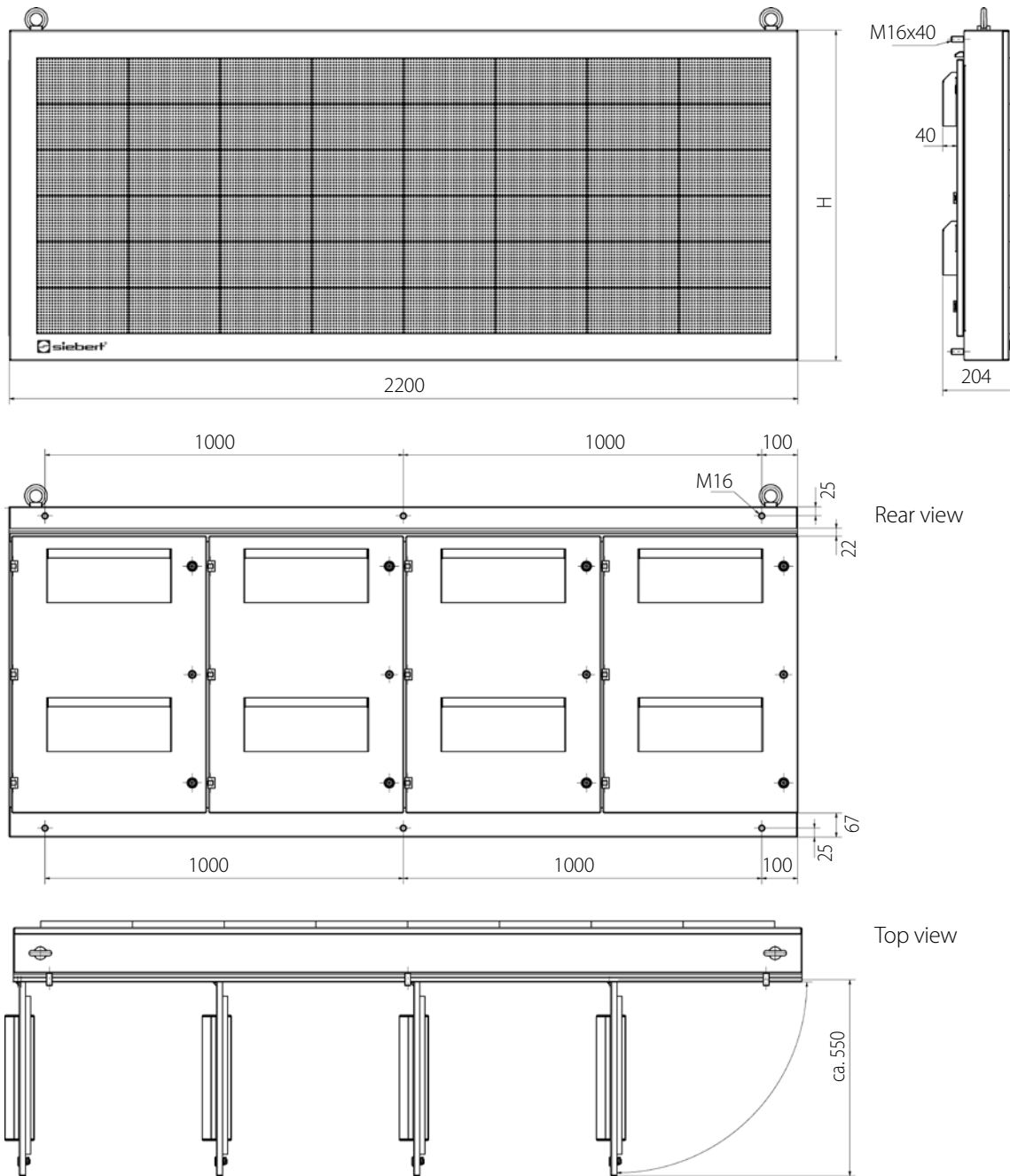
Devices with matrix P8	H	Weight
XC55-256.096.G1-xxEx-xx	920	160
XC55-256.128.G1-xxEx-xx	1180	200

Devices with matrix P16	H	Weight
XC55-128.048.P1-xxEx-xx	920	170
XC55-128.064.P1-xxEx-xx	1180	215

Technical data

	Series XC50 – Indoor devices	Series XC55 – Outdoor devices
Display		
Technology	Brilliant luminous and freely configurable LED matrix	
Character height	Matrix P4: 28, 55, 120 mm | matrix P8: 55, 110, 240 mm | matrix P16: 220, 480 mm	
LED color scale	Red, green, blue yellow, cyan, magenta, white, turquoise, black (LED off)	
Graphics capability	■	
Equidistant fonts	Metric 7 Regular, Metric 14 Regular, Metric 30 Regular	
Proportional fonts	Aryana 7 Regular, Aryana 7 Bold, Aryana 14 Regular, Aryana 14 Bold, Aryana 14 Condensed, Aryana 30 Regular	
Displayable characters	Unicode compatible, special characters for many languages	
Brightness adjustment	Stepless via web interface	
Brightness control		Automatic, sensor controlled, minimum/maximum brightness adjustable
Connectivity		
Control	Ethernet TCP/IP, optional additionally with WLAN IEEE 802.11 b/g/n	
Data protocols	TCP, HTTP POST, HTTP GET, data format JSON	
Internet connectivity	■	
Functions		
Integrated web server	■	
Configuration	Via web interface	
Display options	Text formatting (marquee, bar graph, flashing, etc.) Graphics, symbols, pictograms as bitmap or PNG	
Text modules	■	
Construction		
Housing	Steel sheet powder coated, optional stainless steel 1.4301 (V2A) or 1.4571 (V4A) brushed or powder coated	Steel sheet electrolytically galvanized, double powder-coated, optional stainless steel 1.4301 (V2A) or 1.4571 (V4A) powder coated
Housing color	Anthracite grey/light grey (RAL 7016/RAL 7035, optional other RAL colors	
Protection type	IP54, optional IP65	IP54
Temperature controlled heating		■
Pressure compensation		■
Electrical properties		
Operating voltage	115/230 (85…264) V AC, 50/60 Hz	230 or 115 V AC ±15 %, 50/60 Hz
Power consumption	See page 21	
Ambient conditions		
Operating temperature	0…50 ℃ [1]	-25…50 ℃
Relative humidity	< 90 %, non-condensing	
Storage temperature	-25…70 ℃	

[1] Unit versions XC50-xxx.048.x2-xxxx-xx and XC50-xxx.064.x2-xxxx-xx… : 0…40 ℃.

Power consumption

The performance data are approximate values in Watt.

Series XC50 – Indoor devices

Devices with matrix P4, readable from one side	
XC50-128.032.C1-xxxx-xx	30
XC50-192.032.C1-xxxx-xx	35
XC50-256.032.C1-xxxx-xx	40
XC50-128.064.C1-xxxx-xx	40
XC50-192.064.C1-xxxx-xx	60
XC50-256.064.C1-xxxx-xx	80
XC50-256.096.C1-xxxx-xx	110
XC50-256.128.C1-xxxx-xx	140

Devices with matrix P4, readable from two sides	
XC50-128.032.C2-xxxx-xx	60
XC50-192.032.C2-xxxx-xx	70
XC50-256.032.C2-xxxx-xx	80
XC50-128.064.C2-xxxx-xx	80
XC50-192.064.C2-xxxx-xx	120
XC50-256.064.C2-xxxx-xx	160

Devices with matrix P8, readable from one side	
XC50-064.016.G1-xxxx-xx	25
XC50-096.016.G1-xxxx-xx	30
XC50-128.016.G1-xxxx-xx	35
XC50-192.016.G1-xxxx-xx	50
XC50-256.016.G1-xxxx-xx	70
XC50-064.032.G1-xxxx-xx	35
XC50-096.032.G1-xxxx-xx	50
XC50-128.032.G1-xxxx-xx	65
XC50-192.032.G1-xxxx-xx	95
XC50-256.032.G1-xxxx-xx	120
XC50-128.048.G1-xxxx-xx	95
XC50-192.048.G1-xxxx-xx	135
XC50-256.048.G1-xxxx-xx	180
XC50-128.064.G1-xxxx-xx	120
XC50-192.064.G1-xxxx-xx	180
XC50-256.064.G1-xxxx-xx	240
XC50-256.096.G1-xxxx-xx	360
XC50-256.128.G1-xxxx-xx	480

Devices with matrix P8, readable from two sides	
XC50-064.016.G2-xxxx-xx	40
XC50-096.016.G2-xxxx-xx	50
XC50-128.016.G2-xxxx-xx	65
XC50-192.016.G2-xxxx-xx	95
XC50-256.016.G2-xxxx-xx	140
XC50-064.032.G2-xxxx-xx	65
XC50-096.032.G2-xxxx-xx	95
XC50-128.032.G2-xxxx-xx	120
XC50-192.032.G2-xxxx-xx	180
XC50-256.032.G2-xxxx-xx	240
XC50-128.048.G2-xxxx-xx	180
XC50-192.048.G2-xxxx-xx	270
XC50-256.048.G2-xxxx-xx	350
XC50-128.064.G2-xxxx-xx	240
XC50-192.064.G2-xxxx-xx	350
XC50-256.064.G2-xxxx-xx	460

Series XC55 – Outdoor devices

Devices with matrix P8	
XC55-064.016.G1-xxxx-xx	60
XC55-096.016.G1-xxxx-xx	75
XC55-128.016.G1-xxxx-xx	95
XC55-192.016.G1-xxxx-xx	130
XC55-256.016.G1-xxxx-xx	190
XC55-064.032.G1-xxxx-xx	95
XC55-096.032.G1-xxxx-xx	130
XC55-128.032.G1-xxxx-xx	190
XC55-192.032.G1-xxxx-xx	300
XC55-256.032.G1-xxxx-xx	370
XC55-128.048.G1-xxxx-xx	320
XC55-192.048.G1-xxxx-xx	470
XC55-256.048.G1-xxxx-xx	560
XC55-128.064.G1-xxxx-xx	340
XC55-192.064.G1-xxxx-xx	560
XC55-256.064.G1-xxxx-xx	710
XC55-256.096.G1-xxxx-xx	1050
XC55-256.128.G1-xxxx-xx	1350

Devices with matrix P16	
XC55-032.016.P1-xxxx-xx	95
XC55-048.016.P1-xxxx-xx	130
XC55-064.016.P1-xxxx-xx	190
XC55-096.016.P1-xxxx-xx	300
XC55-128.016.P1-xxxx-xx	370
XC55-064.032.P1-xxxx-xx	340
XC55-096.032.P1-xxxx-xx	560
XC55-128.032.P1-xxxx-xx	710
XC55-128.048.P1-xxxx-xx	1050
XC55-128.064.P1-xxxx-xx	1350

Special equipment

Air conditioning unit

For the use under very high ambient temperatures certain devices
can be equipped with an air conditioning unit.

Glass front panel

The indoor devices of the XC50 series have front panels made of high-quality plastics. In the event of flying sparks,
radiant heat or similar effects, they can be equipped with front panels made of safety glass.
The dimensions of the devices can therefore vary.

Lockable housings

The devices can be easily opened and closed
with quick-release fasteners.
Optionally lockable closures are possible.

Mast mounting/pedestal mounting

Appropriate mounting accessories are available
for mounting the devices to masts. For bigger
devices pedestal systems are offered.

Connectors

Cables for data and power supply are fed through cable glands. The devices are optionally available
with plug connectors for the data and the power supply cables.

Acoustic and optical signallers

The devices can be equipped with flashing lights,
rotating beacons, horns or sound modules to, p.e.
signal a change of information on the display.

System solutions

User or sector specific solutions can be implemented cost-effectively.
The operation takes place via the web interface.
Examples are call systems, control systems,
production control, etc.
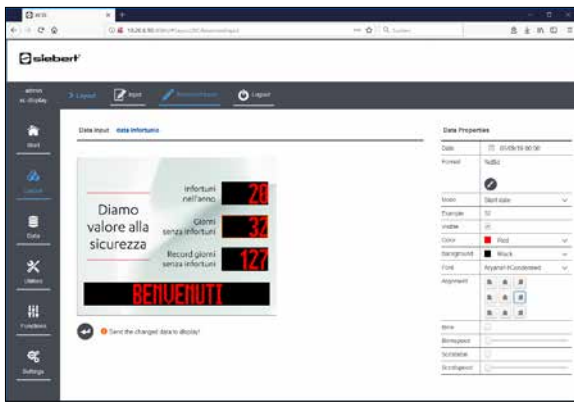
Display board for safety at work

Guidance system for vehicles
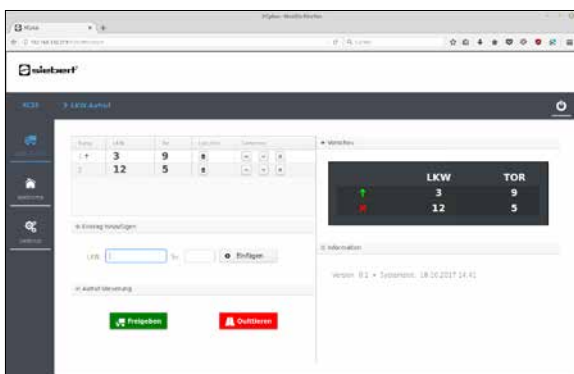
Truck call system

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