



Digital displays
for the photovoltaic

Solar energy made visible

With future-orientated technology you invest in renewable energy. But how does the public becomes aware of your commitment to the environment if the photovoltaic system is not visible on the roof?

With Siebert digital displays you make your solar system and its performance visible – in the foyer, in the entrance hall or public appeal outdoors, and you have the efficiency of your solar system at a glance.

For photovoltaic systems in the field of public buildings or solar systems for commercial use, the visualization of the performance anyway makes sense for the reason that the purpose and ecological benefits of the investment are transparent. The information about the not caused carbon dioxide levels (CO₂) provides valuable educational work.

Series XC410



Series XC420



Series XC440



Brilliant LED displays

All series have brilliant, luminous LEDs. The active luminous digits draw spontaneously - differently acting to passive LCD displays - the attention of the viewer.

A particularly innovative feature of the XC440/XC450 and XC460/XC470 series are the LED digits in latest SMD technology. With white luminous digits – optionally also available in other luminous colors – and extremely high brightness, they define a new standard.

Innovative technology

An intuitively operated software enables easy and fast parameter setting of the display. The XC440/XC450 and XC460/XC470 series can also be parameterized via Bluetooth.

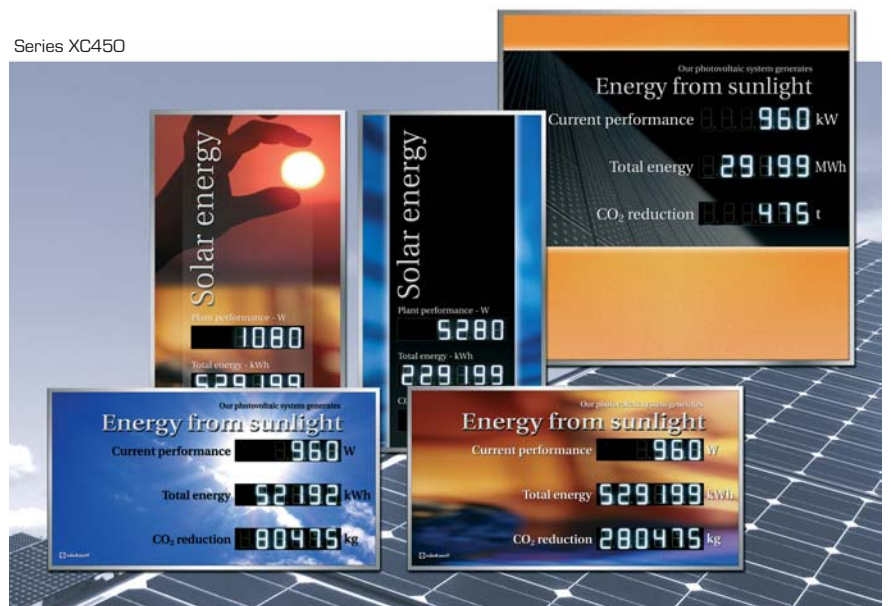
For each photovoltaic system

Siebert digital displays are suitable for any photovoltaic system and can also subsequently be connected to existing facilities.

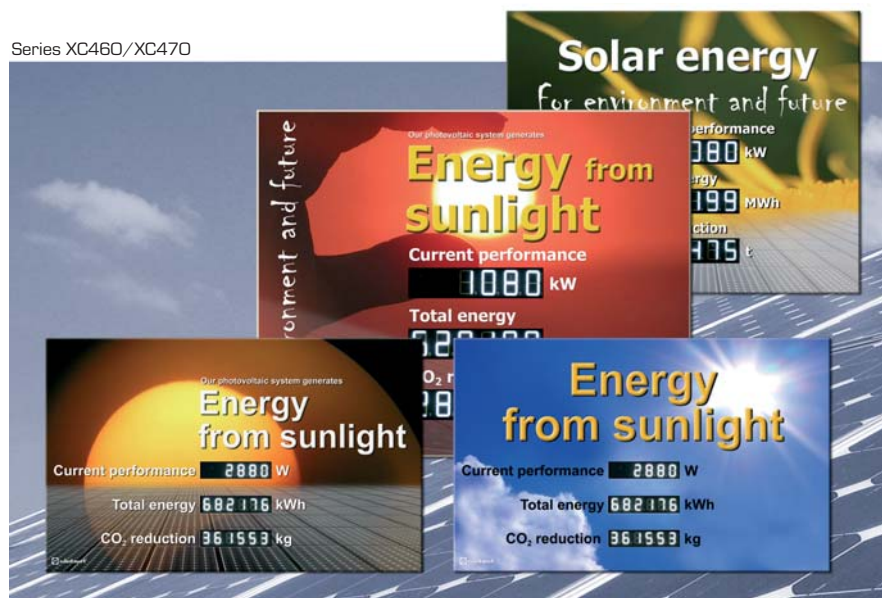
The following connections are available as standard equipment:

- Impulses of an electric meter (SO Interface)
- Serial interface of the inverter or data logger (RS232 or RS485)
- Ethernet interface (RJ45)

Series XC450



Series XC460/XC470



Series XC410 Digital displays made of glass and stainless steel

Ultra-thin design displays

The digital displays of the XC410 series are representative objects with a clear design language. Glass and stainless steel emphasize the high design standard.

Their frameless and ultra-thin design lets them flow in front of the wall and with white luminous LEDs they give off a special elegance.

Different graphic designs to select

The illustrated graphic designs of the XC410 series are offered as standard designs.

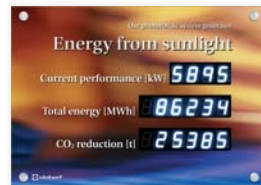
It's also possible to integrate a logo of the investor, the planner, the sponsors or a photo of the building into the graphics. Individually designed graphics are also possible. For this, our own design studio is your competent partner.



Graphic design SV1



SV2



SV3



Labeling see page 10

Technical data

Series	XC410
Product no.	XC410-SAW-N-01
LED display character height	25 mm
LED color	white
Upper LED display	4 Digits
Middle LED display	6 Digits
Lower LED display	6 Digits
Measures (W x H x D)	420 x 297 x 33 mm
Material	stainless steel, steel sheet housing varnished
Power supply	100...240 V AC, 50...60 Hz
Power consumption	25 W max.
Protection type	IP40
Weight	approx. 4 kg
Operating temperature	0...40 C
Storage temperature	-25...85 C

Options

Ethernet interface	XC410-xxx-x-05
1 logo graphic design	<input type="checkbox"/>
2 or 3 logos graphic design	<input type="checkbox"/>
Individual graphic design	<input type="checkbox"/>

available on extra charge

Series XC420

Compact digital displays with innovative technology

Compact dimensions

A special feature of the XC420 series is the compact design: with its housing - even smaller than the size of a sheet A3 format - it finds the right place everywhere.

Innovative technology

It is controlled via the digital interface of the inverter, or a data logger, as well as with the pulses of an electric meter. Despite its compact dimensions, the power supply unit is integrated in the display.

Suitable for outdoor use

Devices which are used outdoors are equipped with screwed housing frames and offer a certain protection against vandalism.

Different

graphic designs to select

The illustrated graphic designs of the XC420 series are offered as standard designs.

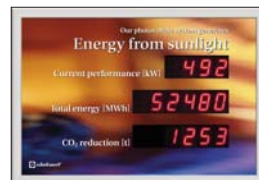
It's also possible to integrate a logo of the investor, the planner, the sponsors or a photo of the building into the graphics. Individually designed graphics are also possible. For this, our own design studio is your competent partner.



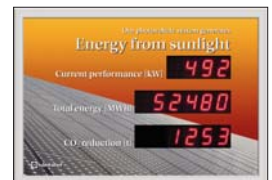
Graphic design SV1



SV2



SV3



Labeling see page 10

Technical data

Series	XC420
Product no.	XC420-SAR-N-01
LED display character height	25 mm
LED color	red
Upper LED-Display	4 Digits
Middle LED-Display	6 Digits
Lower LED-Display	6 Digits
Measures (W x H x D)	400 x 280 x 62 mm
Material	Aluminum, front acrylic glass
Power supply	100...240 V AC, 50...60 Hz
Power consumption	25 W max.
Protection type	IP40
Weight	approx. 3 kg
Operating temperature	0...40 C (-20...50 C)
Storage temperature	-25...85 C

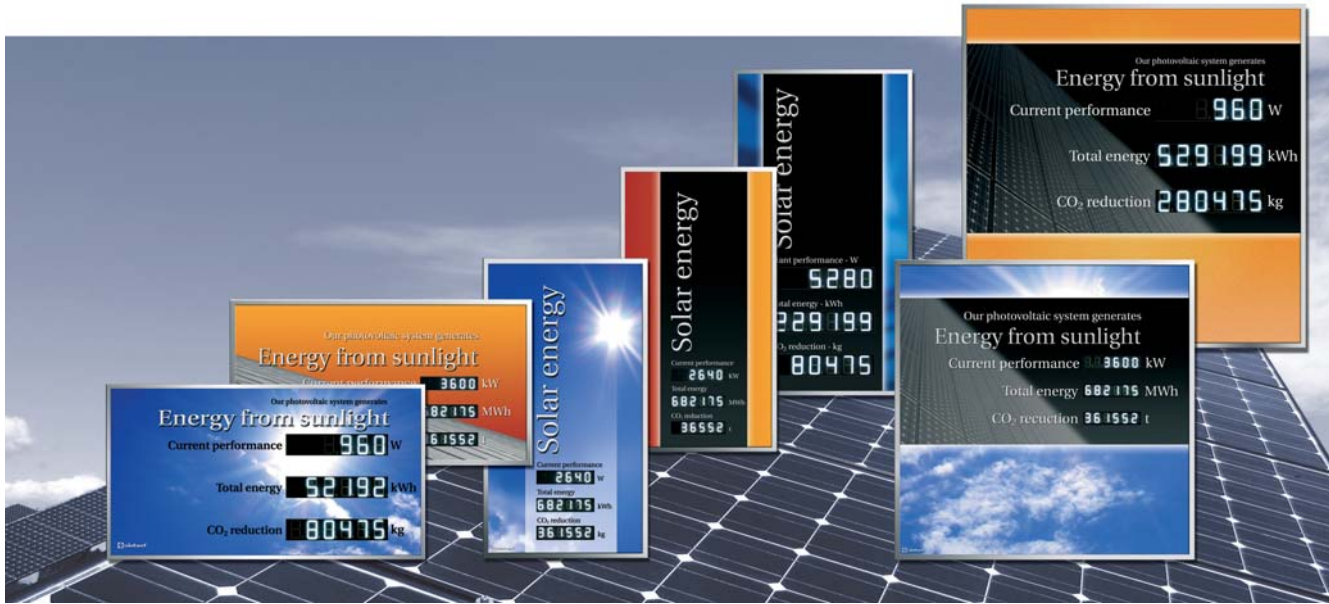
Options

Ethernet interface	XC420-xxx-x-05
LED-Color white	XC420-xxW-x-xx
Equipment package for outdoor use	XC420-xxx-A-xx
1 logo graphic design	<input type="checkbox"/>
2 or 3 logos graphic design	<input type="checkbox"/>
Individual graphic design	<input type="checkbox"/>

Values in () brackets are valid for outdoor application, available on extra charge

Series XC440/XC450

Representative digital displays with a clear design language



Design as a message

With their exclusive design Siebert digital displays of the XC440/XC450 series evoke the interest of the public to communicate the commitment of the investor. Together with the slim aluminum housings they form an object which adapts itself harmoniously in the respective ambience.

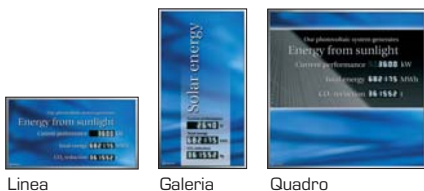
Suitable for outdoor use

Devices which are used outdoors are equipped with screwed housing frames and offer a certain protection against vandalism.

SuperBright LED display

An innovative feature is the LED display in modern SMD technology. With white luminous digits, an elegant typeface and extremely high brightness, it defines a new standard. The SuperBright digits are very well readable in the sunlight.

The XC440 series uses 25 mm high LED digits. Reading distances up to 10 meters are possible. The XC450 series uses 55 mm high digits, they are still readable up to a distance of 20 meters, but achieve, even with a smaller distance and in the outdoor application, a higher grade of attention.



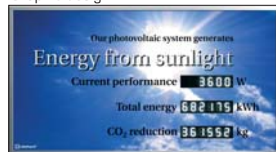
Linea, Galeria, Quadro...

The displays of the XC440/XC450 series are offered in 3 different designs - either designed as Linea with its classical horizontal format, Galeria with its dynamic vertical format or Quadro with its square design which offers a wide scope for individual design.

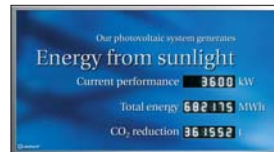
Linea

Design-oriented digital displays in classical horizontal format

Graphic design LV1



LV2



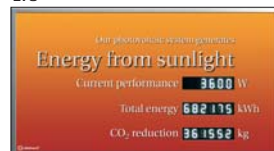
LV3



LV4



LV5



LV6



Galeria

Exclusive digital displays
in dynamic vertical format



Quadro

Digital displays – setting
standards in design



The illustrations show digital displays for the XC440 series and are applicable to the XC450 series. Individually designed graphics are also possible. Labeling see page 10.

Technical data

Series	XC440	XC450
Product no. - Linea	XC440-LCW-N-01	XC450-LCW-N-01
Product no. - Galeria	XC440-GCW-N-01	XC450-GCW-N-01
Product no. - Quadro	XC440-QFW-N-01	XC450-QFW-N-01
LED display character height	25 mm	55 mm
LED color	white	white
Upper LED-Display	6 Digits	6 Digits
Middle LED-Display	6 Digits	6 Digits
Lower LED-Display	6 Digits	6 Digits
Measures (W x H x D) - Linea	800 x 450 x 62 mm	1000 x 560 x 62 mm
Measures (W x H x D) - Galeria	450 x 800 x 62 mm	560 x 1000 x 62 mm
Measures (W x H x D) - Quadro	800 x 800 x 62 mm	1000 x 1000 x 62 mm
Material	Aluminum, front acrylic glass	Aluminum, front acrylic glass
Power supply	100...240 V AC, 50...60 Hz	100...240 V AC, 50...60 Hz
Power consumption	25 W max.	50 W max.
Protection type	IP40 (IP54)	IP40 (IP54)
Weight - Linea / Galeria	approx. 7 kg	approx. 11 kg
Weight - Quadro	approx. 11 kg	approx. 16 kg
Operating temperature	0...40 C (-20...50 C)	0...40 C (-20...50 C)
Storage temperature	-25...85 C	-25...85 C
Options		
Ethernet interface	XC440-xxx-x-05	XC450-xxx-x-05
LED-Color red	XC440-xxR-x-xx	XC450-xxR-x-xx
Equipment package for outdoor use	XC440-xxx-A-xx	XC450-xxx-A-xx
1 logo graphic design	<input type="checkbox"/>	<input type="checkbox"/>
2 or 3 logos graphic design	<input type="checkbox"/>	<input type="checkbox"/>
Individual graphic design	<input type="checkbox"/>	<input type="checkbox"/>

Values in () brackets are valid for outdoor application, available on extra charge

Series XC460/XC470

Robust digital displays for public areas



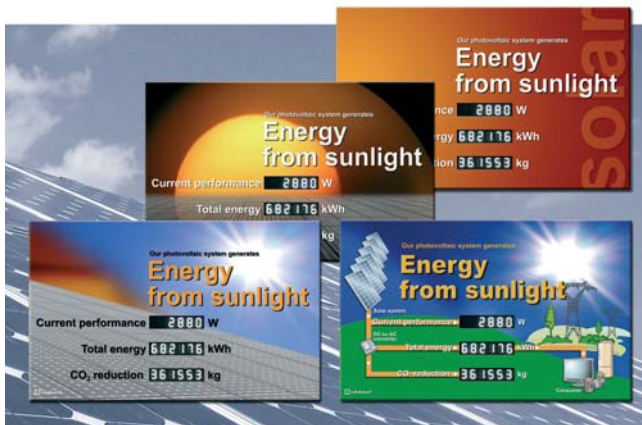
Robust housings

The digital displays of the XC460/XC470 series are especially suitable for sites in public areas or in harsh environments. Their robust steel sheet housings offer a wide protection against external influences on the display.

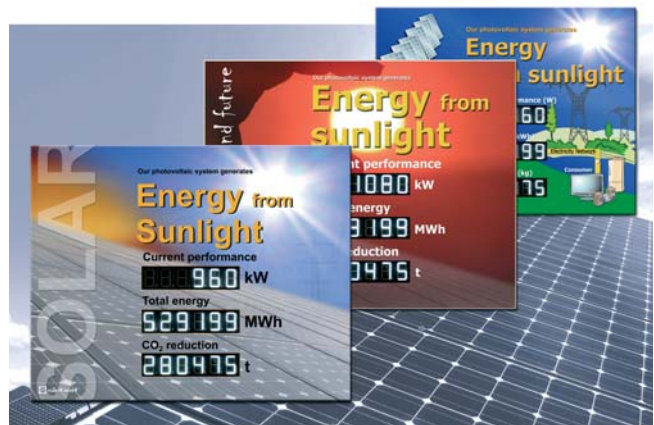
SuperBright LED display

An innovative feature is the LED display in modern SMD technology. With white luminous digits, an elegant typeface and extremely high brightness, it defines a new standard. The SuperBright digits are very well readable in the sunlight.

The XC460 series uses 25 mm high LED digits. Reading distances up to 10 meters are possible. The XC470 series uses 55 mm high digits, they are still readable up to a distance of 20 meters, but achieve, even with a smaller distance and in the outdoor application, a higher grade of attention.



Series XC460



Series XC470

Different graphic designs to select

The devices of the XC460/XC470 series are offered with different graphic designs. It's also possible to integrate a logo of the investor, the planner, the sponsors or a photo of the building into the graphics. Individually designed graphics are also possible. For this, our own design studio is your competent partner:



Technical data

Series	XC460	XC470
Product no.	XC460-SBW-N-01	XC470-SBW-N-01
LED display character height	25 mm	55 mm
LED color	white	white
Upper LED-Display	6 Digits	6 Digits
Middle LED-Display	6 Digits	6 Digits
Lower LED-Display	6 Digits	6 Digits
Measures (W x H x D)	800 x 500 x 70 mm	1000 x 800 x 70 mm
Material	Steel sheet, varnished	Steel sheet, varnished
Power supply	100...240 V AC, 50...60 Hz	100...240 V AC, 50...60 Hz
Power consumption	25 W max.	50 W max.
Protection type	IP40 (IP54)	IP40 (IP54)
Weight	approx. 18 kg	approx. 32 kg
Operating temperature	0...40 C (-20...50 C)	0...40 C (-20...50 C)
Storage temperature	-25...85 C	-25...85 C

Options

Ethernet interface	XC460-xxx-x- 05	XC470-xxx-x- 05
LED-Color red	XC460-xx R -xx	XC470-xx R -xx
Equipment package for outdoor use	XC460-xxx- A -xx	XC470-xxx- A -xx
1 logo graphic design	<input type="checkbox"/>	<input type="checkbox"/>
2 or 3 logos graphic design	<input type="checkbox"/>	<input type="checkbox"/>
Individual graphic design	<input type="checkbox"/>	<input type="checkbox"/>

Values in () brackets are valid for outdoor application, available on extra charge

Labeling the digital display

XC - - -

Graphic design (see respective series)	X	X	X						
Lettering German				D	E				
Lettering English				E	N				
Lettering Spanish				E	S				
Lettering French				F	R				
Lettering Italien				I	T				
Lettering Dutch				N	L				
Current performance in W, Total energy in kWh, CO ₂ reduction in kg									1
Current performance in kW, Total energy in MWh, CO ₂ reduction in t									2
Current performance in W, Daily energy in kWh, Total energy in kWh									3
Current performance in kW, Daily energy in kWh, Total energy in MWh									4
Current performance in kW, Total energy in kWh, CO ₂ reduction in kg									5

XC-Boards®

Custom designed solutions for specific demanding requirements

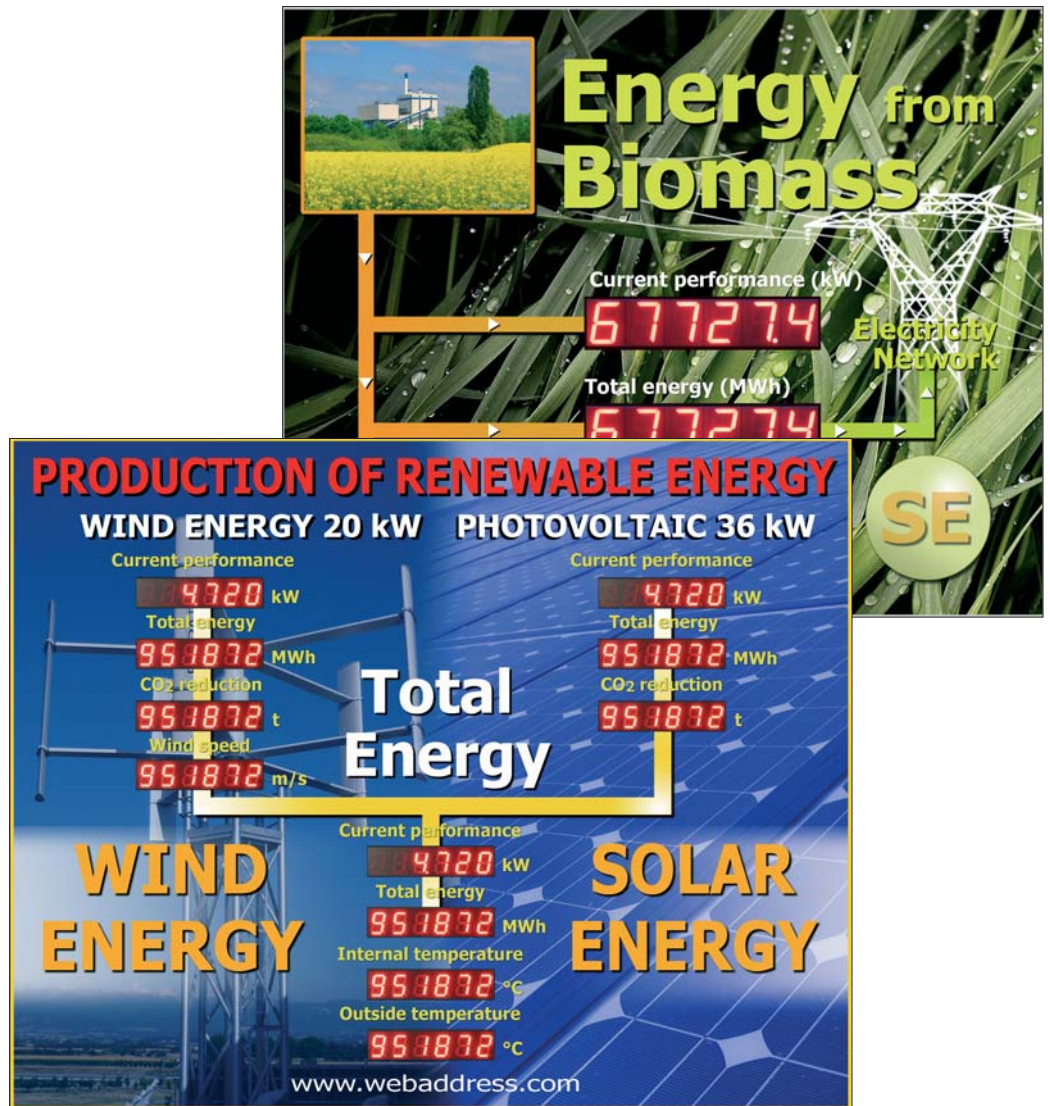
You wish to personalize your display or adapt it to local conditions? XC-Boards® are the perfect solution – from compact systems up to large-sized displays, which can be integrated in facades and allow reading distances up to 300 meters.

The graphic design of the XC-Boards®, we gladly design for you. For this our own design studio is your competent partner.



XC-Boards® are based on proven components of the serial devices. They are designed in close consultation with the customer and tailored to individual needs.

Our extensive experience in the design and implementation of digital display systems leads to professional solutions that prove themselves under difficult conditions.



XC-Boards®

Applications	Illustration facilities	<input type="checkbox"/> For photovoltaics <input type="checkbox"/> For wind energy <input type="checkbox"/> For thermal energy <input type="checkbox"/> For energy generation from biogas plants <input type="checkbox"/> For building technology
	Advantages/Benefits	Image enhancement through environmental information Transparent presentation of technical processes
Features	Design LED character height Character representation Housing options Protection type Mounting Interface Power supply	Customized, one- or two-sided character representation 25, 57, 100, 160, 250, 350 and 700 mm Numeric, alphanumeric Steel sheet, optional stainless steel or aluminum IP65/IP54/IP40 (depending on housing type) Wall, pendant, detached Serial, Ethernet, WiFi, Bluetooth* 230 V AC, optional 115 V AC

*for parameterization

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