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CHARGE:B-845-8

1286.40   CBA-F8

Series S102/SX102
Digital displays
for panel mounting

Series S102/SX102

Technical perfection

Series S102/SX102 represents perfect design and innovative technology for professional applications, the units have proved themselves worldwide in harsh industrial applications.

The interfaces of your choice

The series S102/SX102 is available with field bus, serial, parallel or analog interfaces. All displays have the same compact design with a minimum installation depth.

For the weighing technology

The units are available with six characters. The units for the weighing technology are compatible to the different weighing calculator models and are available with manufacturer-specific protocol adaptations.

LED display

Brilliant LEDs ensure an excellent and high-contrast character presentation. The numeric units can also display other ASCII characters configurable with 7 segments.

Setup menu

Parameters and operating modes can be set quickly and easily in a menu.

Profibus

The displays with a Profibus interface were designed as slaves for Profibus DP in accordance with EN 50 170.

They can be controlled directly with 16 or 24-bit signed or unsigned values, so that the amount of programming involved in the PLC is reduced to an absolute minimum.

Another advantage is the low installation depth of the displays, particularly since the external Profibus connector itself already has a deep installation depth due to its design.

Modbus

These display variants conform to the specification Modbus RTU (Remote Terminal Unit). They support the function 16 (10hex, Write Multiple Registers) and can directly show 16-bit or 24-bit signed or unsigned values.

Serial interface

The displays are available with RS485/RS232 or TTY/RS232 interfaces.

The universally designed RS485 interface allows control of the displays via 2 or 4-wire bus systems.
It also has the resistors required for the bus termination.They can easily be connected to the terminal strip.

The TTY interface provides a galvanically isolated auxiliary voltage in the displays with character heights of 25 and 30 mm which allows active connection of the current loop.

Parallel interface

The displays with a parallel interface have PLC-compatible inputs for 24V signals. With BCD or binary signals, it is possible to have parallel or multiplex control.

The displays with a character height of 25 mm provide a galvanically isolated auxiliary voltage (approx. 24 V) that can serve as the H signal.

Analog interface

The displays with an analog interface have bipolar signal inputs for measuring signals 0/4...±20 mA and 0/2... ±10 V.

The display range can be easily scaled in the menu across the entire display range (-9999…99999 / -99999…999999).

These display have the advantage of switching outputs with potential free contacts and a serial RS422 signal output.

Series S102 – Numeric digital displays

Character height	14 mm	4 digits	6 digits
Display	LED red	S102-04/14/0R-000/0B-...	S102-06/14/0R-000/0B-...
	Front frame	72 x 48 mm	96 x 48 mm
	Weight	approx. 140 g	approx. 170 g
	Power consumption	approx. 4 VA	approx. 4 VA
	Dimensions	A	B

Character height	25 mm	4 digits	5 digits
Display	LED red	S102-04/25/0R-000/0B-...	S102-05/25/0R-000/0B-...
	Front frame	144 x 72 mm	144 x 72 mm
	Weight	approx. 300 g	approx. 300 g
	Power consumption	approx. 4,5 VA	approx. 4,5 VA
	Dimensions	C	C

Interface [1]			
	Profibus DP (...-K0)	■	■
	Modbus RTU (...-M0)	■	■
	Serial RS485/232 (...-S0)	■	■
	Serial TTY 20 mA/RS232 (...-T0)	■	■
	Parallel (...-P0)	■	■
	Analog 0/4...±20mA, 0/2...±10V (...-A0)	–	■
	Counter (...-Z0)	–	■

[1] The interface ordering code is to be appended to the order number, e. g. S102-04/14/0R-000/0B-**S0**

Series SX102 – Alphanumeric digital displays

Char. height	18 mm	6 digits	8 digits	14 digits
Display	LED red	SX102-06/18/0R-000/0B-...	SX102-08/18/0R-000/0B-...	SX102-14/18/0R-000/0B-...
	Front frame	96 x 48 mm	144 x 72 mm	240 x 72 mm
	Weight	approx. 170 g	approx. 300 g	approx. 500 g
	Power consumption	approx. 6 VA	approx. 6 VA	approx. 10 VA
	Dimensions	B	C	D

Char. height	30 mm			8 digits
Display	LED red			SX102-08/30/0R-000/0B-...
	Front frame			240 x 72 mm
	Weight			approx. 500 g
	Power consumption			approx. 10 VA
	Dimensions			D

Interface[1]	Profibus DP (...-K0)	■	■	■
	Modbus RTU (...-M0)	■	■	■
	Serial RS485/RS232 (...-S0)	■	■	■
	Serial TTY 20 mA/RS232 (...-T0)	■	■	■

[1] The interface ordering code is to be appended to the order number, e. g. SX102-06/18/0R-000/0B-**K0**

Series S102
Numeric digital displays for the weighing technology

Character height	14 mm	6 digits
Display	LED red	S102-06/14/0R-000/0B-...
	Front frame	96 x 48 mm
	Weight	approx. 170 g
	Power consumption	approx. 4 VA
	Dimensions	B

Data protocols[1]		
RS485/RS232	CR/LF, STX/ETX	S102-W6/14/0R-000/0B-**S0**
	Siemens Siwarex FTA	S102-W6/14/0R-000/0B-**SM**
TTY 20 mA/RS232	CR/LF, STX/ETX	S102-W6/14/0R-000/0B-**T0**
	Siemens Siwarex M, U, A, CS	S102-W6/14/0R-000/0B-**TM**

[1] Adjustments of data protocols for other weighing systems on request

Technical data

Power supply	18...30 V DC, galvanically isolated
Power consumption	see type tables
Housing	Plastic, black
Connection	Displays with Profibus interface: 9-pole D-Sub plug
	Other units: plug-in terminal strips
Protection type	IP40 (IP65 optional)
Operating temperature	0...50 °C
Storage temperature	-20...70 °C
Relative humidity	95% (non-condensing)
Numeric character set	0...9, various ASCII characters[2]
Alphanumeric character set	ASCII (incl. Cyrillic)

[2] Various ASCII characters not in connection with analog interface
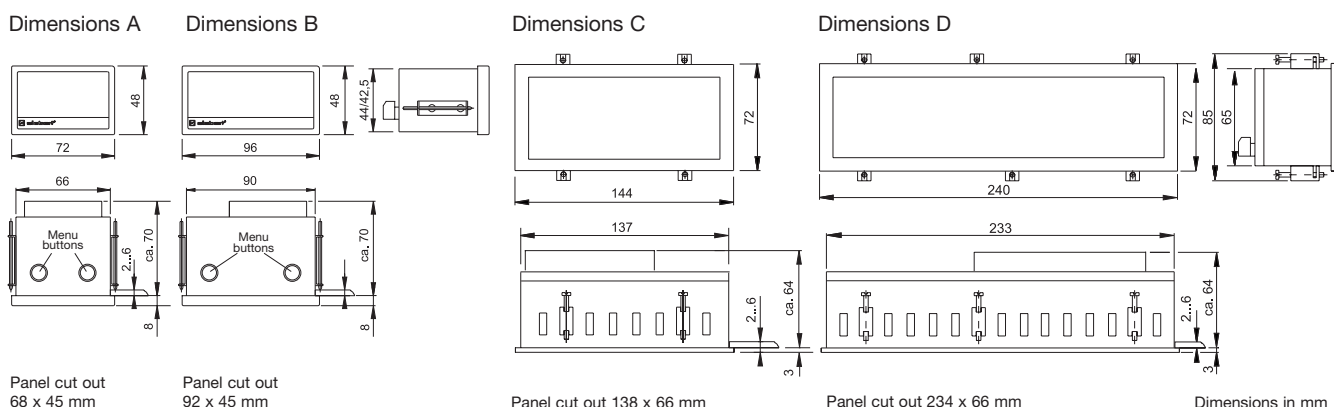
Options

Dimension symbols[3]	S102/SX102-**F**x/xx/xx-xxx/xx-xx
Protection type front IP65	S102/SX102-xx/xx/xx-xx**1**/xx-xx
LED green	S102/SX102-xx/xx/x**G**-xxx/xx-xx

[3] The required dimension symbol must be quoted in the order (see table)

Dimension symbols

F101	F102	F103	F120	F130	F141	F152	F161	F201	F202	F203	F210	F218	F220	F227	F235
g	kg	t	t/h	daN	l	l/s	ℓ	mm	cm	m	m³	$\frac{m}{min}$	$\frac{km}{h}$	m/s	$\frac{m^3}{min}$

F314	F324	F325	F331	F332	F402	F403	F404	F405	F406	F432	F440	F441	F443	F444	F476
kA	kW	MW	kWh	MWh	s	min	h	$\frac{1}{min}$	Stk.	%	°C	ppm	mbar	bar	mmWS

Dimensions

Dimensions A   Dimensions B

Panel cut out
68 x 45 mm

Panel cut out
92 x 45 mm

Dimensions C

Panel cut out 138 x 66 mm

Dimensions D

Panel cut out 234 x 66 mm

Dimensions in mm

siebert®

Series S102/SX102
Digital displays
for panel mounting

Automotive industry

Chemicals &
Pharmaceuticals

Transport & Logistics

Mechanical and industrial
plant engineering

Food processing and
luxury food industry

Steel production
Steel formation

Aerospace industry

Paper and printing industry

Textiles industry

Weighing and dosimetry

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