

# SBPDIS9x



## Dupline® Carpark Display



### Description

The SBPDIS9x display is a part of the Dupline® carpark system. It is used for guiding in Carpark facilities. Connected to the display interface SBP2DI48524. The display is a freely programmable display that allows the installer to decide to use the whole matrix for text, or to use part of it dynamically to show the number of available parking spaces. The programmable display uses high-bright LEDs, which are visible at a distance of more than 50 m - also in bright sunlight. This display is compatible with Carpark systems based on the SBP2WEB24 controller. The display is built for both indoor and outdoor environments.

### Benefits

- Robust and aesthetic looking display built in aluminium
- White LED, 16 x 96 pixels, full matrix
- Option for text and numbers in combination
- Wide language selection, which can show for instance "OPEN 9999" and "CLOSED"
- Visible from a distance of more than 50 m
- Automatic brightness control
- Settings are configurable from the configuration software via a simple menu
- Same display for indoor and outdoor use
- Option for heated display with an extended temperature range below -20°C

### Applications

Display for parking guidance systems.

### Main functions

- Shows text and number of available spaces in a parking zone

## General specifications

### Power Supply

Power supply	≥ 24 VDC (min.)
Consumption (Power)	62 W (122 W heated version)

### Communication

Interface	RS485
Protocol	Modbus RTU
Baud-rate	38400

### Display

Technology	LED SMD	
Digit resolution	16 x 96 pixels, full matrix	
Viewing distance	min. 50 m	
Symbols configuration	Digits	White colour
Brightness control	Automatic or manual	



Fig. 1 SBPDIS9x

### Environmental

Operating temperature	-20 ... 50°C (-4 ... 122°F) (-40 ... 50°C (-40 ... 122°F) heated version)
Degree of protection	IP54
Humidity	5 ... 90% relative humidity

## Mode of operation

The SBPDIS9x is a display used for showing text, for instance "OPEN" or "CLOSED," or text and numbers in combination, for instance "OPEN-1234" or "CLOSED000".

The display has a built-in alphabet to enable the installer to design the text required.

Connect the display to the display interface SBP2DI48524 and use the SBP2WEB24 configuration tool to program the display.

See below the table of programming options.

The display has a 4-wire cable used for connection to the 24 VDC power supply and an RS485 connection, which sends the value to the display.

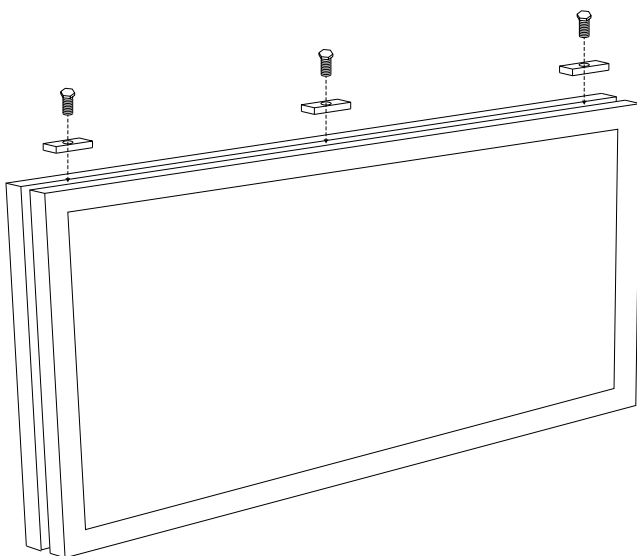
The display needs to be configured prior to installation.

Programming the display is explained further in the software manual.

The SBP2WEB24 software manual can be found by clicking on this link. <http://productselection.net/searchproduct.php>

### Mounting

The display's aluminium frame has a slit with three 6-mm nuts for mounting. Using the nuts, the installer can mount the display on the ceiling or the wall.



The display must be mounted by using the included hammer nuts.

Put the hammer nuts in the slit and twist to secure.

Use for instance a threaded rod or screw with 6 mm to secure the display to the wall or ceiling.

**Note:** Do not open the display in any circumstances, The display and sealing may be damaged. Also, the warranty will be lost.

### Options

If the display is mounted in environments with temperatures lower than  $-20^{\circ}\text{C}$ , we recommend you to use the display variant SBDIS9T.

The "T" indicates a built-in heating element that ensures an operational temperature if the temperature drops below  $-20^{\circ}\text{C}$ .

### Programming

Menu for display programming (9 digits only)

The menu below describes the options when programming the display

1. Select text for "Carpark empty"		
Text only. Up to 9 characters	(XXXXXXXXXX)	
Text and 3 digits	(XXXXXXXX999)	Default
Text and 4 digits	(XXXXXX9999)	
Text and 5 digits	(XXXXX99999)	
2. Select text for "Carpark full"		
Text only Up to 9 characters	(XXXXXXXXXX)	Default
Text and 3 digits	(XXXXXXXX999)	
Text and 4 digits	(XXXXXX9999)	
Text and 5 digits	(XXXXX99999)	
3. Brightness control		
Brightness		
1	30%	
2	50%	
3	75%	
4	Automatic	Default
4. Test		
Display test		
1	Carpark full	
2	Carpark empty	
3	All LEDs ON	
4	All LEDs OFF	
5	OFF	Default
5. Special command		
1	Special command 1	Modbus RTU 40030 - 40038
2	Special command 2	Modbus RTU 40040 - 40048
3	Special command 3	Modbus RTU 40050 - 40058
4	OFF	Default

# Connection Diagrams

## Wiring

### Wiring example for Dupline® Module SBP2DI48524



Element	Component	Element	Component
A	Power supply 24 VDC/Max. 120 W	E	Yellow
B	Display interface SBP2DI48524	F	Green
C	95 ... 260 VAC	G	Brown
D	White	H	Display

## Cable

4 x 0,2 mm	
Brown	24 VDC
White	0 VDC (GND)
Yellow	+ RS485
Green	- RS485

## Housing

Casing	Aluminium
Front material	Transparent acrylic
Colour	Black
Dimensions (HxWxD)	215 x 950 x 45 mm
Weight	4.3 Kg

## Compatibility and conformity

### Approvals

CE-marking	CE
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## References

### Product selection key

### SBPDIS9

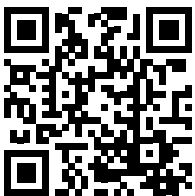
Enter the code entering the corresponding option instead of

Code	Option	Description
SB	-	Smart Building
P	-	Parking
DIS	-	Display
9	-	Number of digits
<input type="checkbox"/>	T	Heating

## Accessories

- 6 mm Hammer nuts for mounting display. 3 items with ordering number: F00S208HM6

**Note:** 6 mm bolt and brackets are not included.



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