

# smart-house Decentralized Analog Output Module Type SHPOUTV224



- 2 x 0-10 VDC analog outputs
- DC-powered (15-28 VDC)
- Small dimension housing for a decentralized installation inside wall-box or environmental sensor housings

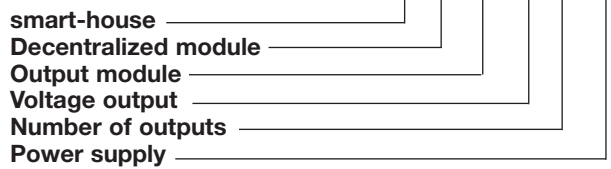
## Product Description

SHPOUTV224 is an output module with 2 analog outputs. The compact size of the module makes it possible to fit it into a wall-box or an environmental sensor housing, thereby enabling a decentralized installation concept where the Dupline® bus and DC power are multi-dropped from sensor to sensor. This

simplifies the wiring compared to traditional star wiring connections, reduces the number of DDCs and sub-panels required, and provides a higher flexibility for last-minute changes and enhancements. The module has 2 x 0-10 VDC outputs. It is fully programmable via the SH tool.

## Ordering Key

**SH P OUT V 2 24**



## Type Selection

Output module	Type	Supply: 24 VDC ± 20%
2	0-10V	SHPOUTV224

## Supply Specifications

Power Supply	
Operational voltage range	15 - 28 VDC
Max ripple	1 V
Reverse polarity protection	Yes
Overvoltage category	Overvoltage cat. II (IEC 60664-1, par. 4.3.3.2)
Rated impulse voltage	500 V (1.2/50µs) (IEC 60664-1, tab. F.1)
Typ. current consumption	15 mA (only internal)
Max. output current	100 mA (not self-limited)
Power on delay	≤ 2 s
Power off delay	≤ 1 s

## Specifications for Analog outputs

Output 1 and 2	
Output type	2 x 0-10 VDC
Inaccuracy	< 0.5% fs (over entire temp. range)
Cable length	< 5 m
Load, each channel	max 1.5 mA

## Dupline® Specifications

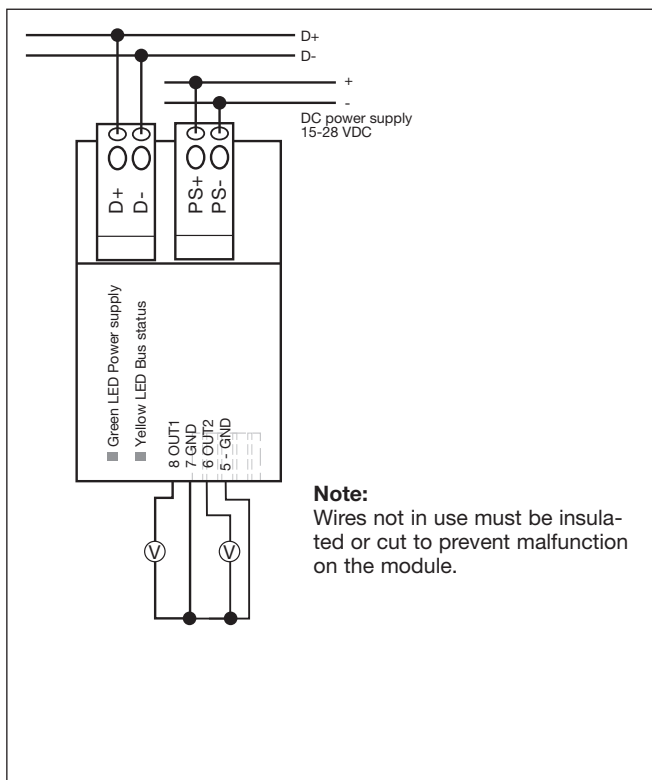
Voltage	8.2 V
Maximum Dupline® voltage	10 V
Minimum Dupline® voltage	5.5 V
Maximum Dupline® current	1.5 mA

## General Specifications

<b>Environment</b>	
Pollution degree	2(IEC 60664-1, par. 4.6.2)
Operating temperature	0 to +50°C (-4 to +122°F)
Storage temperature	-50 to +85°C (-58 to + 185°F)
<b>Humidity</b> (non-condensing)	20 - 90%
<b>Housing</b>	
Material	Macromel
Colour	Ambra
<b>Dimensions</b> (h x w x d)	50 x 30 x 18 mm
<b>Weight</b>	50 g
<b>Protection degree</b>	IP20
<b>Terminal block</b>	
Power supply input	4 x spring terminal
Dupline® bus	4 x spring terminal
Cross-sectional area	Terminal: 1.5 mm <sup>2</sup>
<b>Cable x 4</b>	
5	(GND)
6	Out 2
7	GND
8	Out 1
Wire cross section	0.14 mm <sup>2</sup>
Wire length	0.25 m

<b>EMC</b>	
Immunity	EN61000-6-2
- Electrostatic discharge	EN61000-4-2
- Radiated radiofrequency	EN61000-4-3
- Burst immunity	EN61000-4-4
- Surge	EN61000-4-5
- Conducted radiofrequency	EN61000-4-6
- Power frequency magnetic fields	EN61000-4-8
- Voltage dips, variations, interruptions	EN61000-4-11
Emission	
- Conducted and radiated emissions	CISPR 22 (EN55022), cl.B
- Conducted emissions	CISPR 16-2-1 (EN55016-2-1)
- Radiated emissions	CISPR 16-2-3 (EN55016-2-3)
<b>Approvals</b>	CE cULus according to UL60950

## Wiring Diagram



## Dimensions

