

Smart Dupline® Decentralized Analog Output Module Type SHPOUTV224



- 2 x 0-10 VDC analog outputs
- 24 VDC
- Small dimension housing for a decentralized installation inside wall-box or environmental sensor housings
- Smart Dupline® protocol
- Operates only with Sx2WEB controller

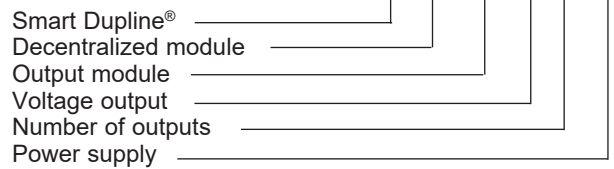
Product Description

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 | 24 VDC ±20% |
| 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 |
| 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

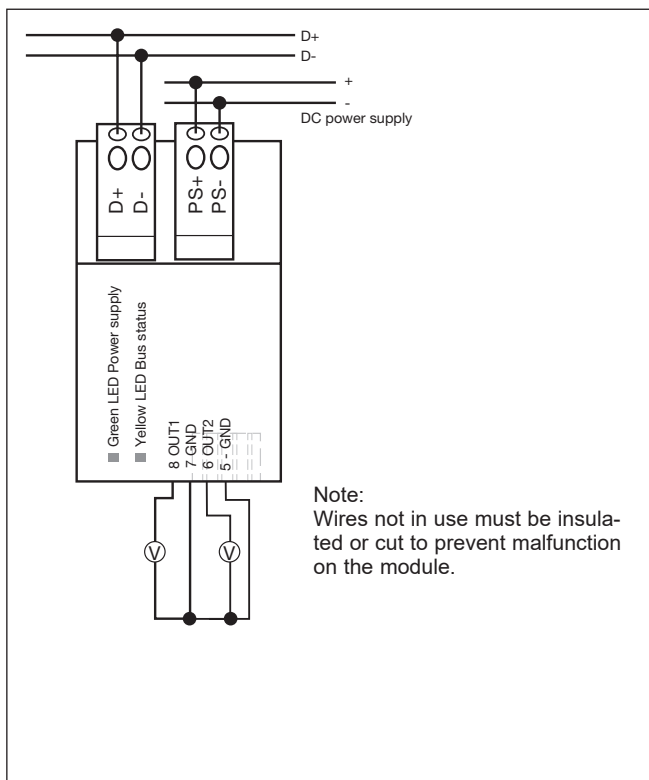
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|--------------------------|----------------|
| Voltage | 8.2 V |
| Maximum Dupline® voltage | 10 V |
| Minimum Dupline® voltage | 5.5 V |
| Maximum Dupline® current | 1.5 mA |
| Analog protocol | Smart Dupline® |

General Specifications

| | |
|----------------------------------|--|
| Environment | |
| 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) |
| Humidity (non-condensing) | |
| | 20 - 90% |
| Housing | |
| Material | Macromel |
| Colour | Ambra |
| Dimensions (h x w x d) | |
| | 50 x 30 x 18 mm |
| Weight | |
| | 50 g |
| Protection degree | |
| | IP20 |
| Terminal block | |
| Power supply input | 4 x spring terminal |
| Dupline® bus | |
| Cross-sectional area | 4 x spring terminal Terminal: 1.5 mm ² |
| Cable x 4 | |
| 5 | (GND) |
| 6 | Out 2 |
| 7 | GND |
| 8 | Out 1 |
| Wire cross section | 0.14 mm ² |
| Wire length | 0.25 m |

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

Wiring Diagram



Dimensions

