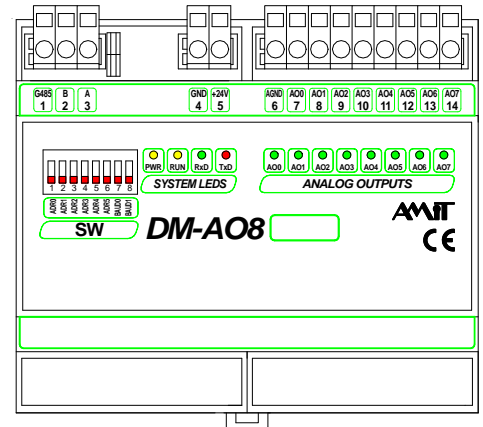


DM-AO8U

Analogue Outputs Module with ARION Protocol

- 8 voltage analogue outputs module
- Without galvanic separation
- Control over RS485 line (ARION protocol)



TECHNICAL DATA

| | |
|---|--------------------------------|
| Outputs | 8 |
| Output voltage | 0 to 10 V DC |
| Max. output current | 10 mA DC |
| Converter resolution | 12 bits |
| Accuracy setting | ±1 LSB |
| Absolute setting error | < 1 % |
| Common lead | Analogue ground |
| Galvanic separation of outputs | No |
| Communication | |
| Serial interface | RS485 |
| Galvanic separation of RS485 | Yes *) |
| Serial interface overvoltage protection | Transil 600 W |
| Communication rates | 9600 to 57600 Bd |
| Max. number of modules on RS485 line | 63 |
| Max. number of modules on RS485 segment | 31 |
| Power supply | 24 V DC ±20 % |
| Power consumption (without outputs) | Max. 150 mA at 24 V DC |
| Others | |
| Signal connection | WAGO 231 cage clamp connectors |
| Cover protection rate | IP20 |
| Operating temperature | 0 to 50 °C |
| Max. ambient humidity | < 95 % non-condensing |
| Weight | 250 g |
| Dimensions (w x h x d) | 105 x 90 x 74 mm |

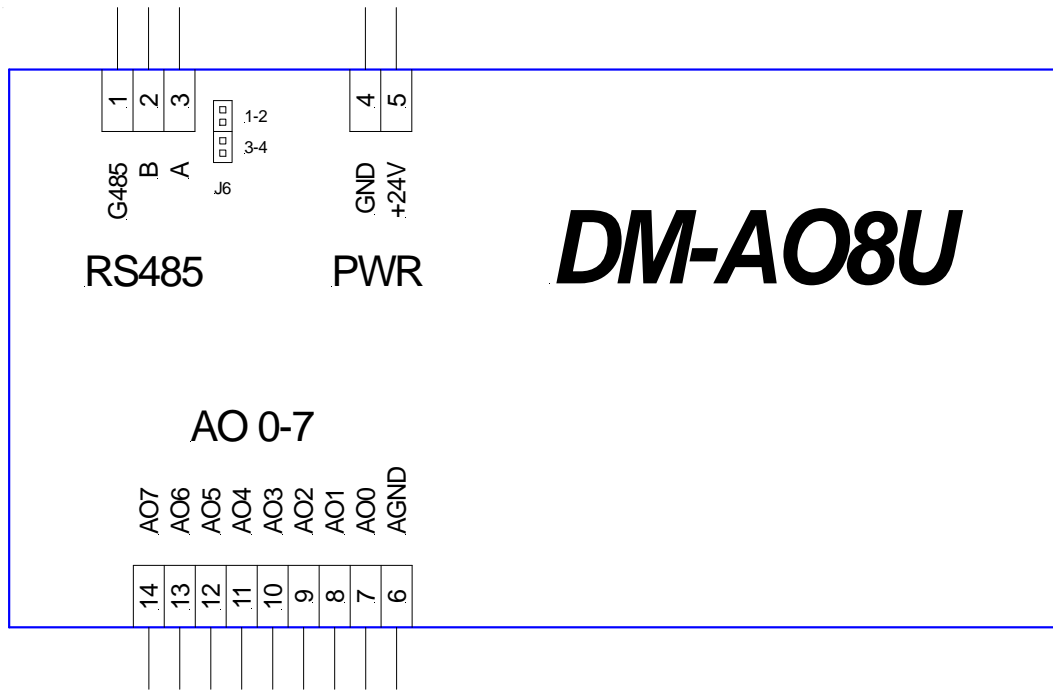
AGND terminal is internally connected with GND terminal of power supply connector.

*) Insulation strength 500 V AC / 1 minute, galvanic separation may not be used for safe and unsafe parts separation.

ORDERING INFORMATION

| | |
|----------------|--|
| DM-AO8U | Module of 8 voltage analogue outputs controlled over RS485 line, data sheet, warranty card |
|----------------|--|

RECOMMENDED DIAGRAM SYMBOL



DIP SWITCH SETTING

Jumpers – RS485 line

| | |
|---------|--|
| J6, 1-2 | Line state definition + A line termination |
| J6, 3-4 | Line state definition + B line termination |

Transmission rates

| | |
|----------|--------------------------|
| 9600 Bd | BAUD0 = OFF, BAUD1 = OFF |
| 19200 Bd | BAUD0 = ON, BAUD1 = OFF |
| 38400 Bd | BAUD0 = OFF, BAUD1 = ON |
| 57600 Bd | BAUD0 = ON, BAUD1 = ON |

DIP SW8

| | |
|-------|------------------------------|
| SW8.1 | Address, binary weight of 1 |
| SW8.2 | Address, binary weight of 2 |
| SW8.3 | Address, binary weight of 4 |
| SW8.4 | Address, binary weight of 8 |
| SW8.5 | Address, binary weight of 16 |
| SW8.6 | Address, binary weight of 32 |
| SW8.7 | BAUD0, transmission rate |
| SW8.8 | BAUD1, transmission rate |

An example of address construction: Addr = 38, switches 2, 3 and 6 are ON (2 + 4 + 32).

TERMINALS ASSIGNMENT

| Terminal | Label | Assignment |
|----------|-------|----------------------|
| 1 | G485 | RS485, shielding |
| 2 | B | RS485, B line |
| 3 | A | RS485, A line |
| 4 | GND | Power supply, ground |
| 5 | +24V | Power supply 24 V DC |
| 6 | AGND | Analogue GND |
| 7 | AO0 | Output 0 |

| Terminal | Label | Assignment |
|----------|-------|------------|
| 8 | AO1 | Output 1 |
| 9 | AO2 | Output 2 |
| 10 | AO3 | Output 3 |
| 11 | AO4 | Output 4 |
| 12 | AO5 | Output 5 |
| 13 | AO6 | Output 6 |
| 14 | AO7 | Output 7 |