

Dupline Analog output module Type G 3238 5138



- 0-10 V DC output
- Accuracy and linearity < 1% of full scale
- Uses 8 channels
- Channel coding by GAP 1605
- H2 Housing
- For mounting on DIN-rail in accordance with EN 50 022

Product Description

The G3238 5138 is a Dupline universal voltage output module. The module receives signals in a digital format from Dupline and converts the digital signals to analog outputs in a 0-10 V range.

The selection of this Analog output module is ideal for the control of modules which are controlled by an analog signal.

Ordering Key

G 3238 5138 230

Type: Dupline®
H2 Housing
Analog
8 channels
1 output
0-10 V DC
Supply

Type Selection

Supply:

230 V

Ordering no.

G 3238 5138 230

Output Specifications

1 output

Signal range

0-10 VDC

Load

10 mA
≥ 1k Ω

Accuracy and linearity

< 1% of full scale

The output is galvanic separated from the Dupline Bus and the power supply.

Input Specifications

8 channels

8 bit binary

Power supply

230 VAC ± 15%
Galvanic separation from
Dupline Bus

Power consumption

3,0 VA

General Specifications

Dimensions	36 x 77 x 70
Housing	H2-housing
Resolution	8 bits or 1/255 stepsize
Output settling time / total delay	< 300 mS
Indication	
Supply ON LED	Green
Dupline carrier LED	Yellow
Adressing	GAP1605
Environment	
Degree of protection	IP 20
Pollution degree	3 (IEC 60664)
Operating temperature	0° to +50°C
Storage temperature	-20° to +85°C
Humidity (non-condensing)	20 to 80% RH
Weight	200 g

***Note:** The RJ12 connector is not connected to the Dupline Bus. This means that the GTU8 cannot be used with this module. However, use the GTU8-GRIP-CAB cable and connect the GTU8 directly on the Dupline bus and it is possible to monitor and control the Dupline Bus again.

Mode of Operation

The binary digital input is transmitted as 8 bits (8 channels) on the Dupline bus. The required 8 bits are selected by means of GAP1605. The most significant bit (MSB) is the first channel and the least significant bit (LSB) is the 8th channel.

The analog output is equivalent to the digital input in the range 0-10V with step size of 1/255. See calculation and example below. The analog output is available at the two output pins that are galvanic isolated from the Dupline circuit and the supply.

Channel	Default addresses	Example
1	A1	0
2	A2	0
3	A3	1
4	A4	1
5	A5	0
6	A6	0
7	A7	1
8	A8	1

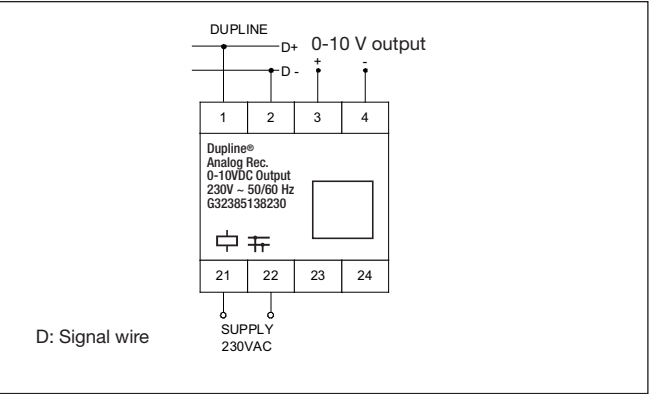
MSB

Binary value: 00110011
Decimal value: 32+16+2+1=51

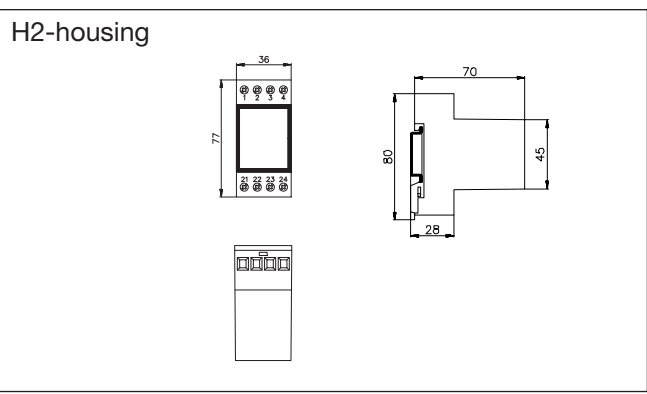
$$U_{output} = \frac{DecimalValue}{256} \cdot 10V$$

LSB

Wiring Diagram



Dimensions (mm)



Installation

Installation is for authorized, trained technicians only. Observe the wiring diagram when installing. All lines to be connected must be dead. Attention should be paid to the correct polarity of the Dupline signal and the analog output. Short-term inverting polarity of the Dupline signal or short-term short-circuiting the analog output will not damage the module, but it will cause it to malfunction until the error is corrected. Connections between the Dupline signal and output signal may cause malfunctions. Other connections are not permissible and will cause malfunctions and damage the module.