# Universal Analog Output Module for DIN-Signals Type G 34396470 



## Product Description

Dupline ${ }^{\circledR} 4$ output universal analog output module with internal supply. The module receives signals on a digital format from Dupline ${ }^{\circledR}$ and converts them to analog outputs. The output type can be selected as $0-20 \mathrm{~mA}, 4-20$ mA or $0-10$ VDC for each output individually making a mix of analog output types on
the same module possible. The transmission format on Dupline ${ }^{\circledR}$ can be selected to fit the output module into existing installations, or simply to use the most suitable combination of resolution, signalling capacity and speed The formats are: 8-bit binary, AnaLink and 3 1/2 digit BCD (with or without multiplexing).

- 4 analog outputs
- Outputs individually configurable for 0-20 mA, 4-20 mA or 0-10 VDC
- Selectable resolution: $1 / 1999$ or $\mathbf{1 / 2 5 5}$ of full scale
- Selectable dataformat : 8-bit, AnaLink or 3 1/2 digit BCD
- EMC immunity according to EN50082-2 (industrial environment)
- DIN-rail mounting (EN 50022)
- Address-selection through rotary switches
- LED-indication for supply and Dupline ${ }^{\circledR}$ carrier
- LED-indication for invalid switch setting and faulty received data
- Watchdog output for faulty received data
- H4 housing


## Ordering Key

Type: Dupline ${ }^{\circledR}$
H4-housing
Receiver
No. of channels
Output type
Power supply

$\qquad$

## Type Selection



## Supply Specifications

| Power supply AC-types | Overvoltage cat. III (IEC 60664) |
| :---: | :---: |
| Operational voltage |  |
| through term. 21 \& 22230 | 230 VAC, $-10 /+15$ \% (IEC 60038) |
| 115 | 115 VAC, -10/+15 \% (IEC 60038) |
| 024 | 24 VAC, -10/+15 \% |
| Frequency | 45 to 65 Hz |
| Power consumption | typ. 7 VA |
| Power dissipation | $\leq 8 \mathrm{~W}$ |
| Rated impulse withstand |  |
| voltage 230 | 4 kV |
| 115 | 2.5 kV |
| 024 | 800 V |
| Dielectric Voltage |  |
| Supply - Dupline ${ }^{\text {® }}$ | 4 kVAC (rms) |
| Supply - Signal output | 4 kVAC (rms) |
| Supply - Watchdog output | 4 kVAC (rms) |
| Power supply DC-types |  |
| Operational voltage | 10,5 |
| Ripple | $<3 \mathrm{~V}$ |
| Reverse polarity protection | Yes |
| Power consumption | < 4 W |
| Power dissipation | < 6 W |
| Rated impulse withstand |  |
| voltage | 800 V |
| Dielectric Voltage |  |
| Supply - Dupline ${ }^{\circledR}$ | 500 VAC (rms) |
| Supply - Signal output | 250 VAC (rms) |
| Supply - Watchdog output | 2 kVAC (rms) |

## General Specifications

| Power ON delay | $\leq 2 \mathrm{~s}$ |
| :---: | :---: |
| Indication for |  |
| Supply ON | LED, green |
| Dupline ${ }^{\circledR}$ carrier | LED, yellow |
| Dupline ${ }^{\circledR}$ format error | LED, red |
| Illegal switch setting | LED, red - flashing |
| Environment |  |
| Degree of protection | IP 20 |
| Pollution degree | 3 (IEC 60664) |
| Operating temperature | $0^{\circ}$ to $+50^{\circ} \mathrm{C}\left(+32^{\circ}\right.$ to $\left.+122^{\circ} \mathrm{F}\right)$ |
| Storage temperature | $-20^{\circ}$ to $+85^{\circ} \mathrm{C}\left(-4^{\circ}\right.$ to $\left.+185^{\circ} \mathrm{F}\right)$ |
| Humidity (non-condensing) | 20 to 80\% |
| Mechanical resistance |  |
| Shock | 15 G (11 ms) |
| Vibration | 2 G (6 to 55 Hz ) |
| Dimensions |  |
| Material <br> (see Technical information) | H4-Housing |
| Weight | 300 g |
| CE-marking | Yes |

## Switch Settings



| Rotary switches in the front |  |  |
| :---: | :---: | :---: |
| Mode | $@ \mathrm{~A}-\mathrm{P}$ | $\oslash 0-\mathrm{F}$ |
| $31 / 2$ digit: | Channel group-pair Ex. setting: C or $\mathrm{D}=\mathrm{C}-\mathrm{D}$ | Mux. address for output 1 , rest of the outputs (if enabled) on the following addresses |
| 8-bit: | Channel group | Same as $31 / 2$ digit. <br> Ex. setting 5 (with 2 outputs enabled) $=$ <br> Output 1 on mux address 5 <br> Output 2 on mux address 6 |
| Analink: | Channel group | Channel no. for output 1, rest of the outputs (if enabled) on the following channels. <br> Setting of $0+9-F$ is not valid. |

Function switches in the front
Offset on output 1-4
$\mathrm{ON}=4-20 \mathrm{~mA} /(2-10 \mathrm{~V})$
OFF $=0-20 \mathrm{~mA} / 0-10 \mathrm{~V}$
No. of enabled outputs
OFF ON : 1
ON OFF: 2
ON ON :3
OFF OFF:4
Mode (Format)
OFF OFF: Analink
OFF ON : 8-bit binary
ON OFF: $31 / 2$ digit BCD
ON ON : Reserved for future use
Multiplex ON/OFF
(Only used in $31 / 2$ digit BCD and 8 -bit binary mode)
$\mathrm{ON}=$ Data is multiplexed
OFF = Data to output 1 is received on the group (or grouppair) rotarysw. A-P is set to, data from input 2, 3, 4 (if enabled) on the following groups (or grouppairs)

## Maintain ON/OFF

ON = Keep output in case of Dupline ${ }^{\circledR}$ (or format) error
OFF = Zero output in case of Dupline ${ }^{\oplus}$ (or format) error

## Wiring Diagram



## Mode of Operation

The G34396470 is a universal analog module with 4 outputs. The outputs can be configured individually for 0$20 \mathrm{~mA}, 4-20 \mathrm{~mA}$ or $0-10$ VDC signals, making a mix of analog output types on the same module possible.The transmission format is selectable and supports all Dupline analog protocols: 8-bit, AnaLink and $31 / 2$ digit BCD. The module can be used in normal or multiplexed mode. Address coding is done by means of rotary switches and the output and protocol selection is done by means of DIP-switches, so the GAP 1605 Programmer is not required.

With reference to the diagram on the previous page, the setting of the module should be performed in the following way:

Select current or voltage signal for each output by means of the 4 double-DIP-switches on the top of the module. If $4-20 \mathrm{~mA}$ is desired for an output select off-set ON for the corresponding switch on the front of the module. The module only outputs signals according to the selected
number of enabled outputs on switches 5 and 6 .

## Address allocation for the Analink protocol:

If all four outputs are enabled, the module will use four Dupline ${ }^{\circledR}$ channels in consecutive order, starting from the address set on the two rotary switches on the front of the unit.
Example: Setting of "D7" means that output 1 receives on Dupline ${ }^{\circledR}$ channel D7, output 2 receives on D8, output 3 receives on E1 and output 4 receives on E2.

## Address allocation for the

 8-bit binary protocol:If all four outputs are enabled and non multiplexed mode is selected (switch 9), the module will use four Dupline ${ }^{\circledR}$ channel groups (32 channels) in consecutive order, starting from the group set on the first rotary switch (A-P). The second rotary switch (0-F) is not used in this mode.
Example: Setting of "F" on the first rotary switch means that output 1 receives on Dupline ${ }^{\circledR}$ group F, output 2 receives on G, output 3 receives on H and output 4 receives on I.

## Dimensions (mm)



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