Universal Analog Output Module for DIN-Signals Type G 3439 6470





- · 4 analog outputs
- Outputs individually configurable for 0-20 mA, 4-20 mA or 0-10 VDC
- Selectable resolution: 1/1999 or 1/255 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® carrier
- LED-indication for invalid switch setting and faulty received data
- · Watchdog output for faulty received data
- H4 housing

Product Description

Dupline® 4 output universal analog output module with internal supply. The module receives signals on a digital format from Dupline® and converts them to analog outputs. The output type can be selected as 0-20 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® 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).

Ordering Key	G 3439 6470 024
Type: Dupline® H4-housing Receiver No. of channels	
Output type ————————————————————————————————————	

Type Selection

Supply	Ordering no.	
24 VAC	G 3439 6470 024	
115 VAC	G 3439 6470 115	
230 VAC	G 3439 6470 230	
10-30 VDC	G 3439 6470 800	

Output Specifications

	Outputs set to voltage	Outputs set to current
Signal		
Signal output	DIN-voltage output	DIN-current output
Signal range	0-10 VDC	0-20 mA / 4-20 mA
Output load	≥ 100 kΩ	0-450 Ω
Short circuit protection	Yes	Yes
Watchdog output	≤ 30 V	≤ 50 mA
Resolution		
A/D	11 bits or 8 bits	11 bits or 8 bits
Transmission	1/1999 or 1/255	1/1999 or 1/255
Output settling time	≤ 0.5 sec.	≤ 0.5 sec
Inaccuracy (11-bit)		
(ref. temp. 25°C)	< 0.4% of full-scale	< 0.4% of full-scale
	< 0.2% of reading	< 0.2% of reading
	< 1 count	< 1 count
Temperature influence	45 (16.66.1)	45 "6 66 "
(ref. temp. 25°C)	< ±15 ppm/K of full-scale	< ±15 ppm/K of full-scale
De como con de de calaba la carda	< ±150 ppm/K of reading	< ±150 ppm/K of reading
Recommended cable length	< 25 m	< 25 m
Dielectric voltage		
Output - Dupline®	250 VAC (rms)	250 VAC (rms)
Output - Watchdog output	2 kVAC (rms)	2 kVAC (rms)

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Supply Specifications

Power supply AC-types Operational voltage	Overvoltage cat. III (IEC 60664)
through term. 21 & 22 230 115	230 VAC, -10/+15 % (IEC 60038) 115 VAC, -10/+15 % (IEC 60038)
Frequency Power consumption Power dissipation Rated impulse withstand	24 VAC, -10/+15 % 45 to 65 Hz typ. 7 VA ≤ 8 W
voltage 230 115 024	4 kV 2.5 kV 800 V
Dielectric Voltage Supply - Dupline® Supply - Signal output Supply - Watchdog output	4 kVAC (rms) 4 kVAC (rms) 4 kVAC (rms)
Power supply DC-types Operational voltage through term. 21 & 22 800 Ripple Reverse polarity protection Power consumption Power dissipation Rated impulse withstand voltage Dielectric Voltage Supply - Dupline® Supply - Signal output Supply - Watchdog output	10,5 V - 30 VDC (Ripple incl.) < 3 V Yes < 4 W < 6 W 800 V 500 VAC (rms) 250 VAC (rms) 2 kVAC (rms)

General Specifications

Power ON delay	≤ 2 S
Indication for Supply ON Dupline® carrier Dupline® format error Illegal switch setting	LED, green LED, yellow LED, red LED, red - flashing
Environment Degree of protection Pollution degree Operating temperature Storage temperature	IP 20 3 (IEC 60664) 0° to +50°C (+32° to +122°F) -20° to +85°C (-4° to +185°F)
Humidity (non-condensing)	20 to 80%
Mechanical resistance Shock Vibration	15 G (11 ms) 2 G (6 to 55 Hz)
Dimensions Material (see Technical information)	H4-Housing
Weight	300 g
CE-marking	Yes

Switch Settings

