



Version 31

# EOLIS 0030A2

EOLIS 0030A2 is an isolated analog converter designed to respond in a simple and economical way to all transmission problems, signal isolation and lightning shock protection.



Universal power supply



Hot-swappable plug in and out



Sensor power supply

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## Presentation

These analog converters 0...4... 20mA – 0...4... 20mA are available in 2 ranges:

- EOLIS 0030A2 is a double isolator: each independent and isolated channel has an input 0... 4... 20mA with sensor power supply and a current output 0... 4... 20mA.
- EOLIS 0030A2- F is a double isolator: each independent and isolated channel has an input 0... 4... 20mA with sensor power supply and a current output 0... 4... 20mA with lightning shock protection

EOLIS 0030A2 is guaranteed for 5 years.

## Applications

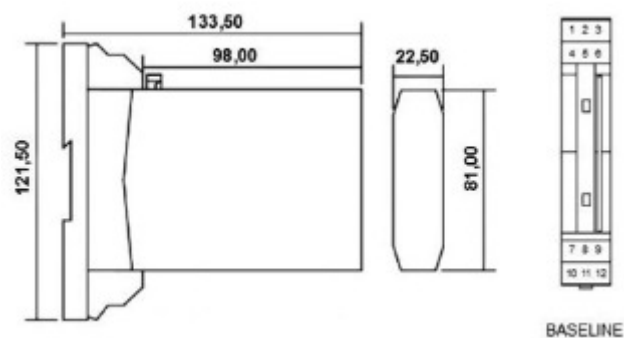
EOLIS 0030A2 & EOLIS 0030A2F have been specially designed to be used as an interface for isolation and signal conditioning, between:

- Sensors and PLCs.
- PLCs and actuators.

To facilitate wiring, commissioning, operation and maintenance, JM Concept has developed pre-wired plates: BASELINE (screw or spring loaded).

BASELINE also has SUBD connections to connect directly to the PLCs via conductor cables. This solution facilitates implementation, reduces cabling time and increases system reliability.

## Dimensions



Dimensions : width : 22,5 mm - Height : 81 mm - Depth : 98 mm

- ⓘ BASELINE boards are to be ordered separately  
22,5 mm Case : Reference BL01ALV  
For multi-converter boards, please consult us.

## Factory settings

Channel 1	Channel 2
Input : 4-20mA	Input : 4-20mA
Output : 4-20mA	Output : 4-20mA

Other settings on demand

## Inputs - Outputs

Possible settings for EOLIS 0030A2 :

Input 0-20mA / Output 0-20mA

Input 4-20mA / Output 0-20mA

Input 4-20mA / Output 4-20mA

## Input gauges

Current (continuous)	0-20mA ; 4-20mA
Sensor supply	Sensor 2 wires 24Vdc ; Supply Sensor : 24V - 26mA max

## Output gauges

Current	0-20mA ; 4-20mA
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## Characteristics

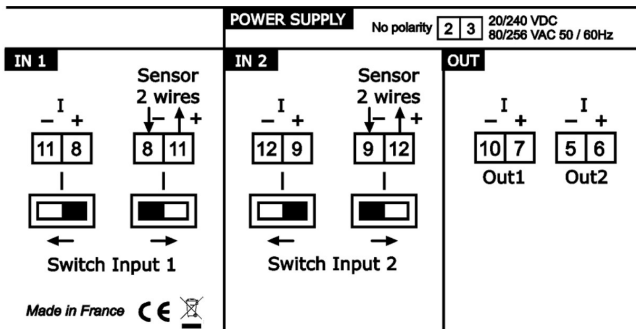
<b>Inputs characteristics</b>	
Current input impedance	4,75Ω
<b>Output characteristics</b>	
Permissible impedance on the current output 1 & 2	<1kΩ
<b>Isolation</b>	
Supply / Input(s)-Output(s)	4200Vrms, 50Hz, 1mn
Input(s) / Output(s)	1500Vrms, 50Hz, 1mn
Input x / Input y	2500Vrms, 50Hz, 1mn
Output x / Output y	2500Vrms, 50Hz, 1mn
<b>Auxiliary source</b>	
Voltage supply	22-240Vdc or 90-230Vac 50/60Hz
<b>General characteristics</b>	
Precision Class	0,1
Response time	<3ms
Thermal drift	<50ppm
Maximum of consumption	<7VA
Operating temperature	-10°C ... +60°C
Storage temperature	-25°C ... +80°C
Protection factor	IP20 Black self-extinguishing polyamide housing V0

## Options listing

Option	Device code
Tropicalization in a 22,5mm case	EOLIS 0030A2-T
Auxiliary source 20-60Vac	EOLIS 0039A2
Lightning shock resistance Rapport LCIE 60031114-529387	EOLIS 0030A2-F

## Wiring

EOLIS 0030A2



### Activation inverter for a 2 wires sensor power supply

An activation inverter for each input, accessible under the converter, allows to activate or deactivate the 2 wires sensor power supply independently on each of the 2 channels.

### Procedure for setting the outputs

- Connect a current generator to the input terminals.
- Connect a current multimeter to the terminals of the output.
- Use the generator to inject the signal corresponding to the low value of the input signal.
- Use the "OFFSET" potentiometer to adjust the low scale of the output.
- Use the generator to inject the signal corresponding to the high value of the input signal.
- Use the "SCALE" potentiometer to adjust the top of the scale of the output

Repeat successively these 2 operations as many times as necessary until the correct low and high scale values are obtained.