

Version of 05/16/2022

JK 7000

Potentiometer input





Universal power supply



Hot-swappable plug in and out

Presentation

The JK 7000 transmitter allows the isolation and transmission of a potentiometric signal.

JK 7000 is guaranteed **for 5 years**

Range

Transmitter	**Input** Potentiometer	**Outputs** Current, Voltage	
		Number of outputs	
	1 input	1	2
JK 7000A1	✓	✓	
JK 7000A2	✓	✓	✓

Factory settings

Input	**Output 1**	**Output 2 (JK 7000A2)**
0-1 KOhm	4-20 mA	4-20 mA

Other settings on demand

Inputs - Outputs

Input gauge

Potentiometer	From 0-100Ω to 0-100KΩ

Output gauges

Output 1&2 Current	0-20mA ; 4-20mA
Output 1 Voltage	0-10V
Output 2 Voltage	0-10V ; ±10V

Characteristics

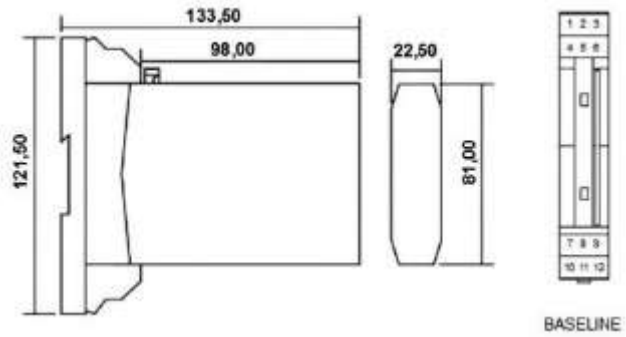
Input characteristics	
Potentiometer voltage supply	2,5Vdc
Output characteristics	
Permissible impedance on the current output	Output 1 : <900Ω Output 2 : <650Ω
Permissible impedance on the voltage output 1 & 2	>4,7kΩ
Isolation	
Supply / Input-Output(s)	4200Vrms, 50Hz, 1mn
Input / Output(s)	1500Vrms, 50Hz, 1mn
Output x / Output y	Without
Auxiliary source	
Voltage supply	22-240Vdc or 90-230Vac 50/60Hz
General characteristics	
Precision class	0,1
Response time	<100µs
Thermal drift	<50ppm
Residual ripple on current output	<20µA
Residual ripple on voltage output	<20mV
Maximum of consumption	<5.5VA
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	JK 7000AX-T
Auxiliary source 20-60Vac	JK 7009AX
Passive output 15V<U<36V – 0…4…20mA	JK7000AXP

Dimensions and wiring

Dimensions

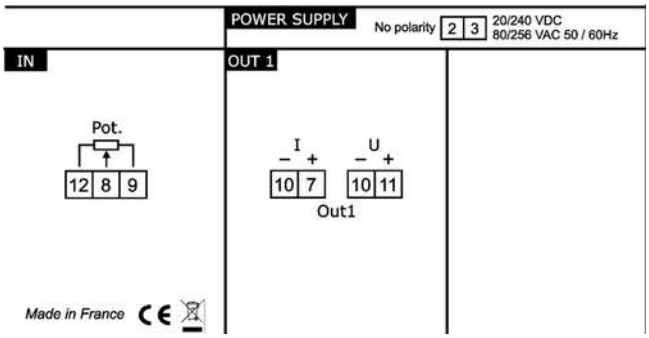


Dimensions: width: 22,5 mm - Height: 81 mm - Depth: 98 mm

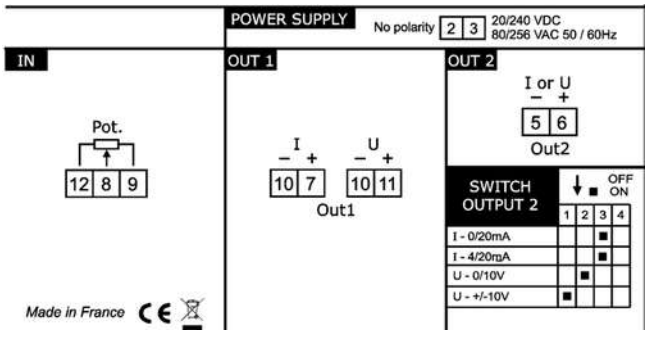
BASELINE boards are to be ordered separately
22,5 mm Case : Reference BL01ALV
For multi-transmitter boards, please consult us.

Wiring

JK 7000A1



JK 7000A2



Output Adjustments

On the front, output 1 is marked S1, output 2 is marked S2 (version JK7000A2).

The outputs are independent of each other, so the beginning and end of scale of each of the outputs are set independently.

Selection of outputs:

- Use the output switch (for JK7000A2) to select the output type

Adjustment:

- Connect to the input terminals a potentiometer of value between 100Ohms and 100kOhms
- Connect a current or voltage multimeter to the terminals of the output to be adjusted and then depending on the selected output
- Position the potentiometer at the beginning of the stroke
- Use the potentiometer "OFFSET" to set the low scale of the output
- Position the potentiometer at the end of the stroke
- Use the potentiometer "SCALE" to set the high scale of the output

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