







ISOLATION AMPLIFIER for mA / V Signals with 2-wire Transmitter Supply

MAIN FEATURES

DA561 is specially designed for signal isolation and load amplification in the process industry.

A 2-wire transmitter can be connected to and supplied from the isolation amplifier.

DA561 maintains a high isolation level (1,5 kV) between input and output.

Current and voltage can be chosen independently as input and output signals.

Applications

- Voltage feed for a 2-wire transmitter, and galvanic isolation from its mA circuits.
- Galvanic isolation, when a mA signal is connected, to more than one measurement or monitoring system.
- Conversion of measurement range 0-20 mA to 4-20 mA or vice versa.
- Load amplification and isolation when extra high load capacity is needed.

2-wire transmitter supply

A 2-wire, 4-20 mA, transmitter can be connected directly to the input of the DA561, thanks to the built-in transmitter supply.

Configuration flexibility

DA561 is designed for the most usual input and output process signals, such as mA and V.

Input and output ranges are changed with the help of jumper connections, and a simple instruction table.

Fine adjustment of the amplifiers zero point and span can be made with potentiometers accessible from the front of the unit.

Noise immunity

DA561 meets the high demands from the process industry of good EMC performance. Criterion A applies for all EMC tests, which means that the amplifier stays within specifications during EMC influence.

Test connections

The mA output signal can be measured on the front terminals with a low-ohm mA instrument without breaking the output circuit.

Plug-in, screw terminals

DA561 is connected via plug-in screw terminals. The terminal blocks and cables are easy to disconnect from the unit for convenient dismantling and service. Installation is simplified by connection diagrams on the front panel.

Compact mounting on DIN-rail

DA561 snaps on to a 35 mm DIN-rail and can be mounted with high density.

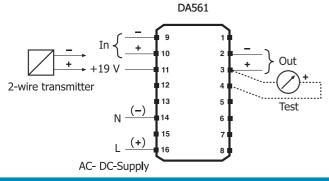
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		IONS DA561
NPUT		
/oltage		0(0.2)-1 V, 0(1)-5 V, 0(2)-10 V
	Input impedance	1 Mohm
Current	· ·	0(4)-20 mA (standard setting)
	Input impedance	11.9 ohm
1aximum input level	· · ·	200 % of measurement span
DUTPUT		
/oltage		
		0(0.2)-1 V, 0(1)-5 V, 0(2)-10 V, short circuit protected
	Minimum load	500 kohm (error effect <0.1 %)
	Voltage limitation	Appr. 56 V
Current		0(4)-20 mA, open or short circuit protected (standard setting)
	Maximum load	600 ohm
	Current limitation	Appr. 23 mA
	Test output	mA instrument, Ri ≤ 10 ohm
Response time	T(50 %)	Appr. 25 ms
	T(90 %)	Appr. 100 ms
lipple		Max. 50 μA, 5 kHz
RANSMITTER SUPPLY		
Supply voltage		19 VDC, max. ripple 100 mV p-p
NVIRONMENT CONDITION	s	
mbient temperature	Operation	-20 to +60 °C
	Storage	-25 to +70 °C
lumidity	Storage	0 to 95 %RH
MC	EN 50081-2, EN 50082-2 (Industrial)	Criterion A (within specifications)
VD	IEC 1010-1	Installation category III, maximum 250 V
ENERAL DATA	120 1010 1	
Galvanic isolation	AC & DC version	
	Input to output	1 500 VAC, 1 min
	Input/output to power supply	2 200 VAC, 1 min
ower supply	AC version	230 VAC, -15+10 %, 4575 Hz,
ower supply	DC version	19 to 60 VDC
ower consumption		4 VA
alibration		±0.1 % ¹⁾
inearity		±0.1 % ¹)
epeatability		±0.05 % ¹⁾
emperature influence		±0.15 % ¹ / 10 °C
Supply voltage influence		± 0.15 % $^{-1}$ within variation range
ong-term stability	First 3 months (burn-in)	± 0.05 % ¹ / within variation range ± 0.2 % ¹ / year
	After 3 months	$\pm 0.2 \%$ ¹ / year $\pm 0.05 \%$ ¹ / year
IOUSING	AILEL 5 HIUHUIS	
		Appr E00 g
Veight		Appr. 500 g IP 20
Protection	Dive in terminals	
Connection	Plug-in terminals	Stranded, ≤ 2.5 mm ² , AWG 14
lounting		Rail acc. to DIN EN 50022, 35 mm
Of input span		

CONNECTIONS

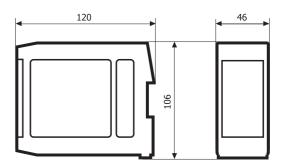


ORDERING INFORMATION

DA561 230 VAC DA561 19-60 VDC Configuration

51MOE00006 51MOE00007 70CAL00001

DIMENSIONS



Measurements in mm

DISTRIBUTION

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