

2-input-2-output analog voltage(current)signal isolation transmitter

Features:

- ◆Small size, low cost, international standards DIN35mm rail mounting
- ◆Six-port isolation (input, output, power supply and mutual isolation between channels)
- ◆Passed CE Certificate
- ♦ High accuracy (0.1% F.S, 0.2% F.S)
- ◆Full-scale range (<0.2% F.S)
- ◆High isolation voltage (3000VDC/60S)
- ◆Low temperature drift (100PPM/°C)
- \bullet Wide operation temperature (-45~+85°C)
- ♦ High reliability (MTBF>50 Wan hour)
- ◆Power supply (5VDC/12VDC/15VDC/24VDC/9-36VDC multiple choice)
- ◆International standard signal input and output (0-5V/0-10V/1-5V/4-20mA/0-20mA, etc.)

Application:

- ◆DC current/voltage signal isolation, conversion and amplification
- ◆Industrial field signal isolation and long distance transmission without distortion
- ◆ Analog signal ground interference suppression and analog isolation ,acquisition ,conversion, and long-distance transmission
- ◆4-20mA/0-20mA/0-5V/0-10V sensor signal isolation, transformation and long-distance transmission
- ◆Instrumentation and sensor signal transceiver
- ◆Power isolation monitoring industrial field
- ◆Power monitoring, medical equipment isolation barrier
- ♦ Overcome interference between instrumentation equipment

General Description:

Jieshengda Technology JSD TA-2002 2-in-2-out analog signal isolation transmitter is a signal conditioner with electrical insulation between input and output, it can receive a variety of analog signal from the field instrument, and transmit a standard output signal or user-specified special signal to the control room. PLC, PC or DCS. The product is isolated between power supply, input and output, the isolated voltage between them is up to 3000VDC. It is widely used in the power isolation, monitoring and control of industrial site, power monitoring, medical electronic equipment, analog signal isolation and acquisition etc. Adopting optical isolation technology, compared with the electromagnetism isolation transmitter has a stronger anti-EMC electromagnetic interference, it is available to keep free gain adjustment and zero adjustment, low temperature drift and good linearity, suitable for using vibration, damp industrial field, the international standard DIN35mm rail mounting, user-friendly installation. If 1-in-3-out/1-in-4-out/3-in-3-out isolation transmitter please purchase JSD TA-1003/JSD TA-1004 and JSD TA-3003 series. AC power supply please purchase the JSD TA-X50X series, two/three-wire isolation transmitter please purchase JSD TA-1021/JSD TA-1031 series.

Product Selection Parameter List:										
Signal Input Code:				Power Supply Code		Output Signal Code:				
Voltage(VDC)		Current(mA)		Power(VDC)		Voltage(VDC)		Current(mA)		
1:	0-5V	A:	0-1mA	W:	9-36VDC	1:	4-20mA	4:	0-5V	
2:	0-10V	B:	0-10mA	1:	24VDC	2:	0-20mA	5:	0-10V	
3:	0-75mV	C:	0-20mA	2:	15VDC	3:	0-10mA	6:	1-5V	
4:	0-2.5V	D:	4-20mA	3:	12VDC					
				4:	5VDC					
U: User-defined			U:	User-defined	U:	User-defined				





Selection Example:

Example 1: input 1: 4-20mA; input 2: 4-20mA; output 1:4-20mA; output 2:4-20mA; power supply:24VDC; model: JSD TA-2002-D11

Example 2: input 1: 0-10VDC; input 2: 0-10VDC; output 1:0-5VDC; output 2:0-5VDC; power supply:5VDC; model: JSD TA-2002-245

Example 3: input 1: 0-5VDC; input 2: 0-10VDC; output 1:0-10VDC; output 2:0-5VDC; power supply:8-50VDC; model: JSD TA-2002-1W5-2W4

Electrical Characteristics:

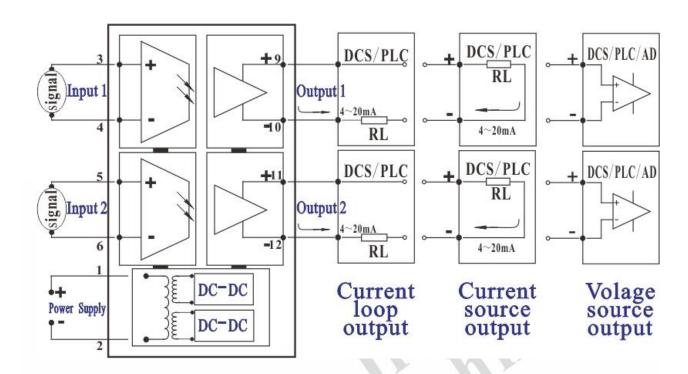
Signs	Item		Test condition	Min	Typ.	Max	Units
Isolation characteristics	Isolation voltage		AC,50Hz,tested for 1 minute, humidity<70% leakage current < 1mA,)	26	3000	6	V(rms)
Transmission	Gain				1		V/V
characteristics	Gain drift			7	100		ppm/℃
Characteristics	Non-linearity		440		0.1	0.2	%FSR
Input	Input offset	voltage			2	5	mV
characteristics	Input	voltage	0 10	0.3	1		M
Characteristics	impedance	current		100	250	1000	Ω
	Signal	voltage		0		10	V
	output	current		0		20	mA
	Load	voltage	Vout=10V		2		kΩ
Output	capacity	current		0	350	650	Ω
characteristics	Frequency Response		-3DB		1		KHz
14/	Response Time		///		≤ 1		mS
/ '//	Signal output ripple		Unfiltered		10	20	mVrms
	Signal voltage drift		-45~+85℃			0.2	mV/℃
	Power	voltage		3.3	24	50	VDC
Power		Power		0.5	1	1.5	W
Supply	supply	Range		-10		+10	%
input	operating			-45		85	${\mathbb C}$
characteristics	storage temperature			-55		105	${\mathbb C}$
	weight				121		g
Note:	normal load \leq 350 Ω ,if requiring load is 650 Ω , Please note when ordering						

Pins function description:

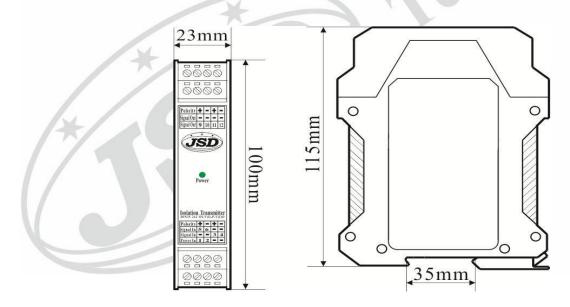
Signal types	Pin	Function	Pin	Function	Storage
	1	Power supply In +	9	Signal Output + 1	
	2	Power supply In -	10	Signal Output - 1	Standard DIN35
X7.1, /	3	Signal Input+ 1	11	Signal Output + 2	
Voltage/	4	Signal Input- 1	12	Signal Output - 2	
Current in	5	Signal Input+ 2	13	No pin (NC)	Rail
111	6	Signal Input- 2	14	No pin (NC)	mounting
	7	No pin (NC)	15	No pin (NC)	
	8	No pin (NC)	16	No pin (NC)	



Application Wiring Diagram:



Product Dimensions:



Notes:

- 1. NC" pin must not be connected to any external circuit, otherwise it will damage the product itself;
- 2. Please read the user manual carefully before using. If any question please contact our technical support department.
- 3. Please do not use this product in hazardous area. The power supply of this product should be 24VDC power source. It is forbidden to use 220VAC power supply.
- 4. Calculating from the date of delivery, during normal use of the product, any quality problems are free repair or replacement by Company during 3 years warranty,
- 5, the product is strictly forbidden demolish without permission for not damage
- 6. All specifications measured at Ta=25 °C, humidity<75%, nominal input voltage and rated output load unless otherwise specified.
- 7. In this datasheet, all the test methods of indications are based on corporate standards.