

Pressure Strain Bridge Signal Conditioners WJ15 series

Features:

- >> Industrial temperature range: - 45 ~ + 85 °C
- >> Three isolation 3000VDC: input signal/ output signal/ power supply
- >> PWR: 5VDC, 12VDC, 15VDC, 24VDC ± 10% single power supply
If >5V product has internal reverse protection.
- >> The product provides a high load capacity reference voltage of 5V or 10V to the pressure strain bridge circuit.
- >> 0-10mV / 0-20mV / 0- ± 10mV / 0- ± 20mV and other differential voltage signal input, the international standard signal 0-5V / 0-10V / 4-20mA output.
- >> Isolation voltage: 2500VDC (1mA, 60S)
- >> Installation: DIN35 rail, 79x69.5x25mm
- >> Have a strong anti-EMC electromagnetic interference and inhibit high-frequency signal space interference characteristics
- >> Using environment: the surrounding environment shall not have a lot of dust, strong vibration shock, and the corrosion of the components of the existence of gas



Applications:

- >> Load cell signal transmission
- >> Overcome the scattered acquisition, signal transmission from the long-rang circuit crosstalk, strong electrical interference
- >> Realize the free connection analog signal.
- >> Analog signal ground interference suppression
- >> Overcome the interference caused by the inverter
- >> Signal remote no distortion transmission

Product description:

WJ15 series pressure strain bridge signal processing isolated conditioners are a differential signal isolation amplification, converted into a proportional output DC signal module. Products are widely used in power, remote monitoring, instrumentation, medical equipment, industrial automation and other industries. This series modules embed a highly efficient mini power supply, they provide an isolated power supply to the input and output terminals and an optically coupled isolation amplifier, and provide a high load capacity 40mA reference output. Greatly simplifies the user's design. As a result of the internal using linear optoelectronic isolation technology compared to electromagnetic isolation has better resistance to EMC interference and space electromagnetic interference.

Product Listing:

WJ15 - Po□ - 2mV/V-P□ - V/I□

Reference voltage		Input signal	Power supply		Output signal			
output	code	Sensor parameters		code	current	code	voltage	code
5V	Po1	1mV/V	24VDC	P1	0-20ma	A3	0~5V	V1
10V	Po2	2mV/V	12VDC	P2	4-20ma	A4	0-10V	V2
User-defined	Poz	10mV/V	5VDC	P3	User-defined	Az	1-5V	V6
		User-defined	15VDC	P4			User-defined	Vz
			User-defined	Pz				

Samples:

1.signal Input: 10V 2mV/V power supply:24VDC signal output:4-20mA

Part No.: **WJ15-Po2-2mV/V-P1-A4**

2. signal Input: 5V 5mV/V power supply:5VDC signal output:4-20mA

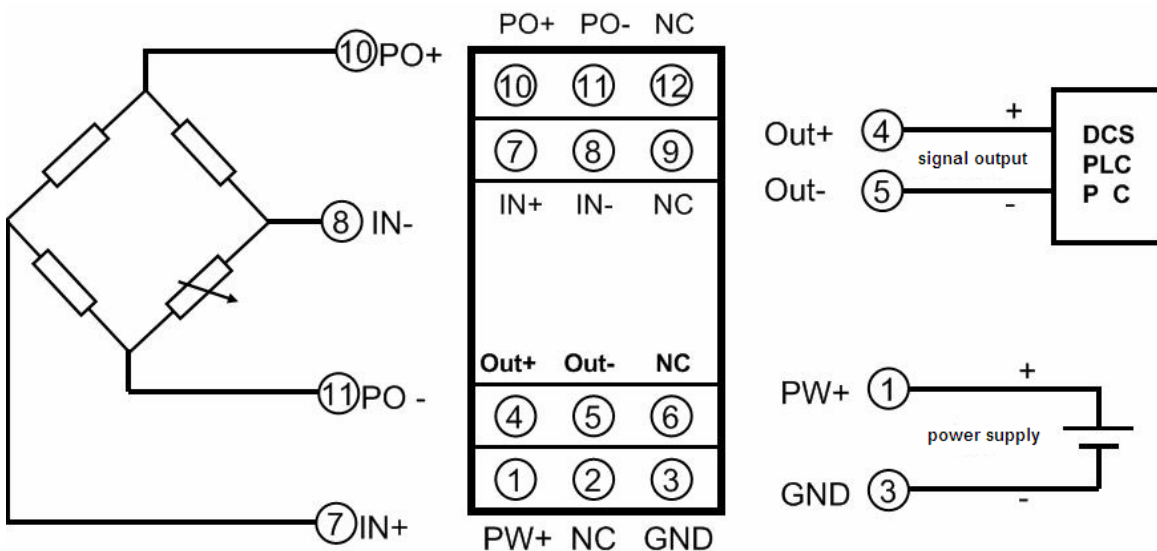
Part No.: **WJ15-Po1-5mV/V-P3-A4**

General parameters:

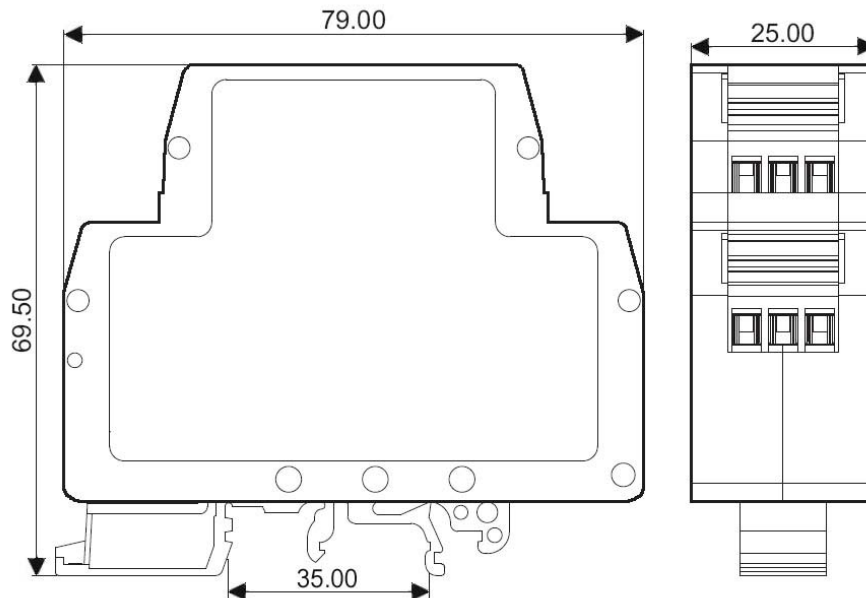
Item	Test Condition	Min.	Type.	Max.	Unit	
Isolation voltage	1min		3000		VDC	
Gain	Voltage output		2		mV/V	
	Current output		1		mV /mA	
Gain Drift			100		ppm/°C	
Non-linearity			0.1	0.2	%FSR	
Signal input		0		1000	mV	
Distribution voltage lout			30	70	mA	
Input offset voltage			50		uV	
Input resistance		10M			Ω	
Signal output	voltage	0		15	V	
	current	0		30	mA	
Load capacity	voltage	Vout=10V	1	*	kΩ	
	current		0	250	350	Ω
Frequency response	-3DB		100		mS	
Signal output ripple	No-filter		10	20	mVRMS	
Signal voltage drift				0.2	mV/°C	
Power supply	voltage	User-defined	5	12	24	VDC
	Power loss			0.4	1	W
Working temperature		-40		85	°C	
Storage temperature		-40		85	°C	

Products Connecting Diagram:

Pin	Function	Pin	Function
1	Vcc Power Supply +	7	A RTD signal A
2	NC No Pin	8	B RTD signal B
3	GND Power Supply -	9	B RTD signal B
4	Out+ Output Signal +	10	NC No Pin
5	Out- Output Signal -	11	NC No Pin
6	NC No Pin	12	NC No Pin



Size (unit: mm)

**Note:**

1. Before using, according to packing lists, and product labels, check the quantity, models and specifications
2. When measure the signal directly, please set the terminal tighten
3. There are no damaged insulation, conductive dust and corrosive fumes of metal in the environment
4. Installation pitch $\geq 10\text{mm}$
5. We have adjusted well, do not adjust arbitrarily
6. Warranty: two years. But if clients damage products by themselves or tear off any labels on the product, we can not exchange
7. Products can not been used in strong magnetic field
8. Internal no anti-lightning circuit
9. Specifications subject to change without notice

Warranty

Two years (but violate operating rules and requirements to create damage, clients need pay maintenance costs)

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Specifications subject to change without notice.

Brand

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