

# DC V/I Signal to Frequency Signal Transmitter

## ISO U(A)-P-O

### Applications:

- DC signal converter to isolated frequency pulse signal
- Accurate digital voltage testing meters
- A/D isolated converter instruments
- Data testing and remote monitor instrument
- Analog signal data acquisition
- Ground interference control



### Features:

- Change the input signal into unit impulse signal
- Efficiency grade: 0.1/0.2
- International standard signal input: 0-5V/0-10V/1-5V, 0-10mA/0-20mA/4-20mA, etc.
- Standard signal output: 0-5KHz/0-10KHz /1-5KHz and so on
- Extremely high linearity in whole process (Nonlinearity<2%)
- 3KV isolation among Signal input/output/ Accessorial power supply

### Model Selection:

ISO- U(A)□- P□- F□

Input rated voltage ( or current )	Auxiliary Power P	Output F
U1: 0-5V	P1: DC24V	F1: 0-5KHz (5V impulse)
U2: 0-10V	P2: DC12V	F2: 0-10KHz (5V impulse)
U8: Customized	P3: DC5V	F3: 1-5KHz (5V impulse)
A1: 0-1mA	P4: DC15V	F4: 0-5KHz (open collector)
A2: 0-10mA	P8: Customized	F5: 0-10KHz (open collector)
A3: 0-20mA		F6: 1-5KHz (open collector)
A4: 4-20mA		F8: Customized
A8: Customized		

### Example:

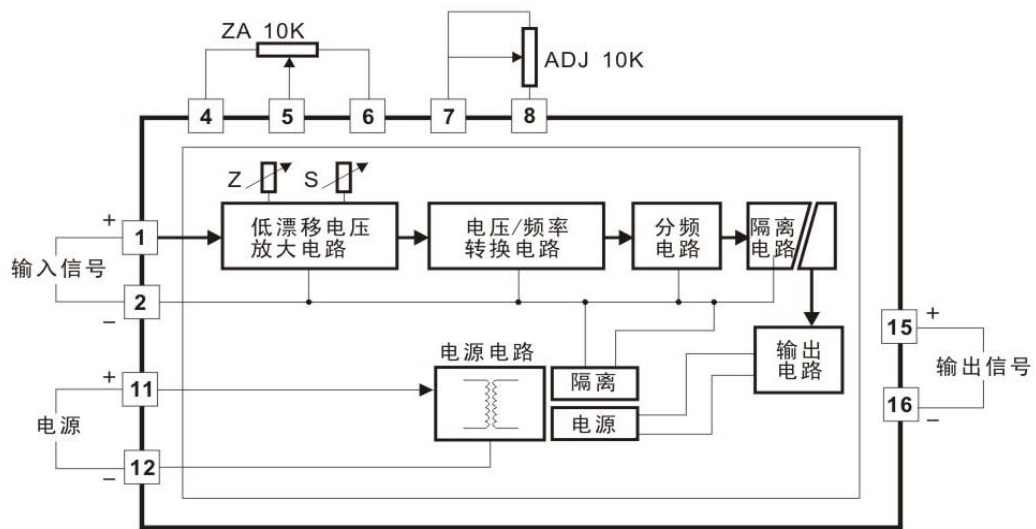
Eg1: input: 0-5V	Accessorial power supply: 24VDC	output: 0-5KHz	Model: ISO-U1-P1-F1
Eg2: input: 0-20mA	Accessorial power supply: 5VDC	output: 0-10KHz	Model: ISO-A3-P3-F2

### General Parameters:

Efficiency ----- 0.1%/0.2%	Isolation ----- Signal input/output / Accessorial power supply
Accessorial power supply ----- DC5V/12V/24V	Insulated resistance ----- ≥20MΩ
Operating Temperature ----- -25 ~ +70℃	Comparison endurance ----- Signal input/output/ Accessorial power supply
Operating humidity ----- 10 ~ 90% (No condensing)	3KVDC, (50Hz/1min, leak current 1mA)
Storage temperature ----- -45 ~ +85℃	
Storage humidity ----- 10 ~ 95% (No condensing)	

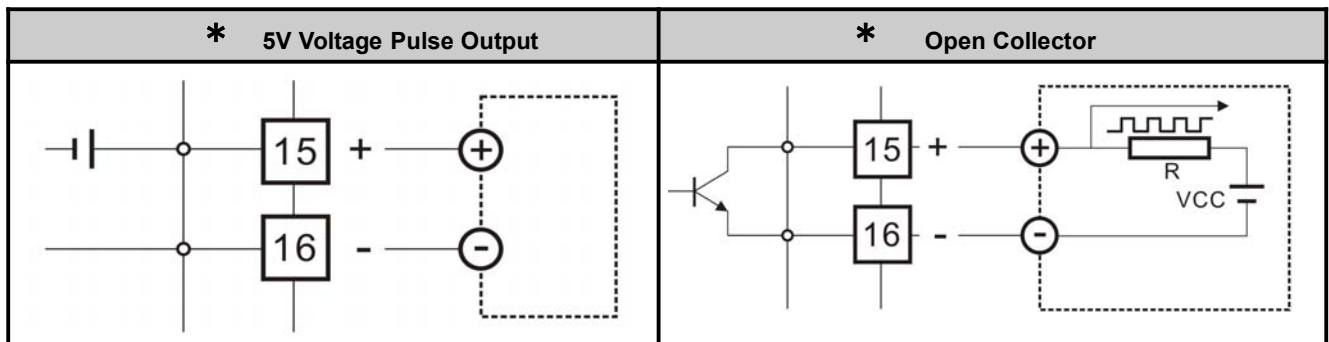
Input Parameter				Output Parameter		
Input	Input impedance	Power loss	Input over-load	Output	Output Parameter	Response time
0-5V	> 100KΩ	<1W	1.2 times : Continuous	F1: 0-5KHz(5V impulse )	High Level: 3.0-5.5V	≤50mS
0-10V				F2:0-10KHz(5V impulse )	Low Level:Below 0.5V	
0-1mA	TYP: 250Ω			F3: 1-5KHz(5V impulse )	Load resistance: > 250Ω	
0-10mA	Customer chose			F4: 0-5KHz ( collector )	DC30V , 100mA ( Resistance load )	
0-20mA				F5: 0-10KHz ( collector )		
4-20mA				F6:1-5KHz ( collector )		

Circuit Diagram:

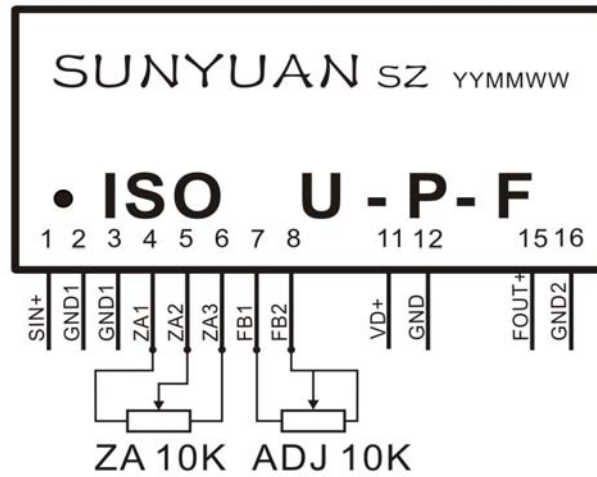


Functional Block Diagram

Typical Connection Circuits:



SIP 16Pin Function Description:



Signal input +	Signal input -	Zero adjustment #1 10K	Zero adjustment #2 10K	Zero adjustment #3 10K	Gain adjustment #1 10K	Gain adjustment #2 10K	NC	Input auxiliary power positive	Input auxiliary power GND	NC	Signal output +	Signal output -
SIN +	GN D1	ZA1	ZA2	ZA3	FB1	FB2	NC	VD+	GND	NC	Fout +	GN D2
1	2~3	4	5	6	7	8	9~10	11	12	13~14	15	16

PCB Installation and Dimension

