



# Bridging the Gap between Real World and Computer

## ATD Series



## Dual Output Signal Isolated Transmitter

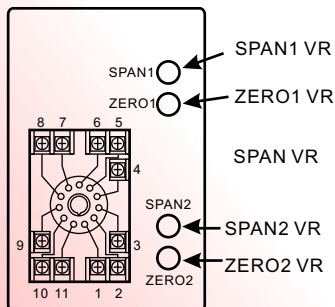
### Features

- ▶ Versatile Input selection : DC / AC / PT-100 / Potentiometer / Resistor / Load Cell
- ▶ Versatile output selection : 4~20mA, 0~20mA, 0~5V, 0~10V
- ▶ Accuracy :  $\pm 0.1\%$  F.S. (Others);  $\pm 0.2\%$  F.S. (AC)
- ▶ Surge test of 2000Vac/ 1min
- ▶ High stability, non-flammable case (PC), high safety

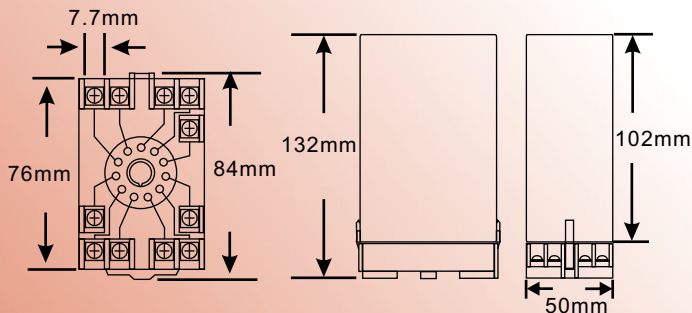
### Calibration

#### STEPS:

- ▶ Input the zero value and adjust the ZERO VR to the zero point.
- ▶ Input the span value and adjust the SPAN VR to the span point.



### Dimensions



### Specifications

- ▶ Input Selection : DC / AC / PT-100 / Potentiometer / Resistor / Load Cell
- ▶ Output Selection : 4~20mA, 0~20mA, 0~5V, 0~10V
- ▶ Accuracy :  $\pm 0.1\%$  F.S. (Others)  $\pm 0.2\%$  F.S. (AC)
- ▶ Zero Adjustment :  $\leq \pm 5\%$  F.S.
- ▶ Span Adjustment :  $\leq \pm 10\%$  F.S.
- ▶ Output Ripple :  $\leq \pm 0.1\%$  F.S.
- ▶ Temperature Coefficient : 100ppm/ °C (0 °C ~ 60 °C)
- ▶ Output Response Time : < 250msec (0~90%)
- ▶ Isolation : Input / Output / Power / Case
- ▶ Insulation Resistance : > 100M $\Omega$  with 500Vdc
- ▶ Surge Test : 2KVac/1min
- ▶ Input Impedence :
  - Voltage : > 2V for 20K $\Omega$ /V;  $\leq 2V$  for > 200M $\Omega$
  - Current :  $\geq 0.2A$  at 100mV; < 0.2A at 1V
- ▶ Output Capability : Voltage Output : < 10V  
Current Output : < 20mA
- ▶ Operating Temperature : 0 °C ~ 60 °C
- ▶ Operating Humidity : 20~90% RH, non-condensing
- ▶ Storage Temperature : -10 °C ~ 70 °C
- ▶ Storage Humidity : 20~90% RH, non-condensing
- ▶ Installation : Socket / Plug-in

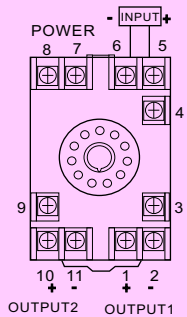
## Note



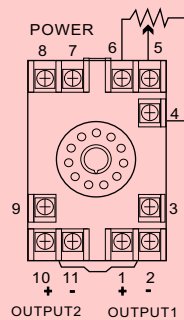
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## Wiring Connection

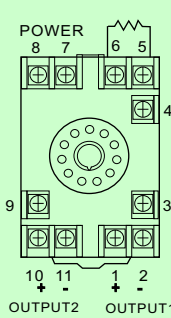
- Voltage (V), Current(A)(AC, DC)



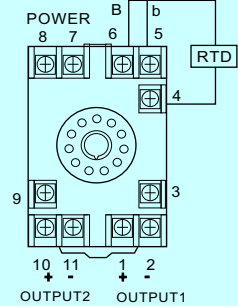
- 3 Wire Potentiometer



- 2 Wire Resistor



- Temperature (RTD)

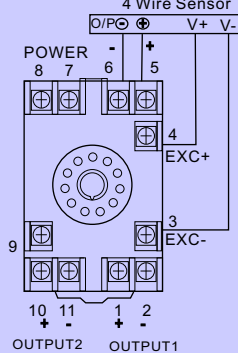


## Ordering Information

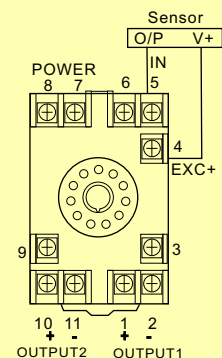
ATD - Code 1 - Code 2 - Code 3 - Code 4 - Code 5

Code 1	Input Type	Code 2	Type	Range	Code 3	Aux. Power	Code 4	Analog Output 1	Code 5	Analog Output 2
D	DC	V1	Voltage	0~50mV	A	AC/DC 100~240V	1	4~20mA	1	4~20mA
		V2		0~5V						
		V3		1~5V						
		V4		0~10V						
		V5		0~36V						
		V6		0~600V						
		V7		Option						
A	AC AVG	VO	Option	D	AC/DC 24~60V	2	0~20mA	2	0~20mA	
		A1	0~20μA							
		A2	0~200μA							
M	AC TRMS	A3	Current	0~2mA	O	Option	3	0~5V	3	0~5V
		A4		0~20mA						
		A5		0~200mA						
		A6		4~20mA						
P	3 Wire Potentiometer	A0	Potentiometer	Option	O	Option	4	0~10V	4	0~10V
		P1		500Ω~10KΩ						
		P2		10KΩ~100KΩ						
		P3		100KΩ~1MΩ						
I	2 Wire Resistor	P0	Resistor	Option	O	Option	O	Option	O	Option
		I1		0~10Ω						
		I2		0~100Ω						
		I3		0~1KΩ						
		I4		0~10KΩ						
		I5		0~100KΩ						
T	RTD (PT-100)	IO	RTD (PT-100)	Option	O	Option	O	Option	O	Option
		T1		-50~50°C						
		T2		0~50°C						
		T3		0~100°C						
		T4		0~200°C						
		T5		0~400°C						
		T6		0~600°C						
L	Load Cell	LO	Load Cell	Option	O	Option	O	Option	O	Option
		L1		1mV/V EX. 5V						
		L2		2mV/V EX. 5V						
		L3		3mV/V EX. 5V						
		L4		1mV/V EX. 10V						
		L5		2mV/V EX. 10V						
		L6		3mV/V EX. 10V						
2	2,3 Wire Sensor									
4	4 Wire Sensor									

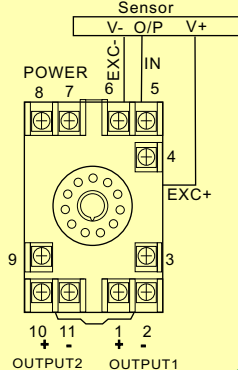
- 4 Wire Sensor Or Load Cell



- 2 Wire Sensor



- 3 Wire Sensor



- 1 : 2 wire type offers excitation power DC 24V for 2 wire (Loop Power) pressure, temperature, humidity sensors using.
- 2 : 3.4 wire type offers excitation power DC 24V for 3, 4 wire (Loop power) pressure, temperature, humidity sensors using.
- 3 : Load Cell type of excitation power DC 5V can have 2 load cell in parallel; DC 10V only can offer 1 load cell to use.