

ATD Series
DUAL OUTPUT SIGNAL ISOLATED
TRANSMITTER

USER'S MANUAL (V1.1)

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Correction record

Version	Record
V1.1	Modify 6. Ordering information

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1. 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 AC 2000V / 1min
- High stability, non-flammable case (PC), high safety

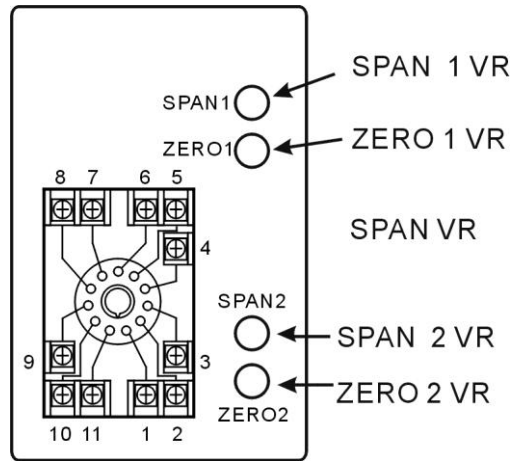
2. Specifications

- 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/degree C(0~60 degree C)
- Output Response Time : < 250 msec (0~90%)
- Isolation : Input / Output / Power / Case
- Insulation Resistance : > 100M Ω with 500Vdc
- Surge Test : 2KVac/1min
- Input Impedence : Voltage: > 2V for 20K Ω /V; $\leq 2V$ for > 200M Ω
Current: $\geq 0.2A$ at 100mV; < 0.2A at 1V
- Output Capability : Voltage Output: < 20mA
Current Output: < 10V
- Operating Temperature : 0-60 degree C
- Operating Humidity : 20 to 90% RH (non-condensing)
- Storage Temperature : -10-70 degree C
- Storage Humidity : 20 to 90% RH (non-condensing)
- Installation : Socket / Plug-in

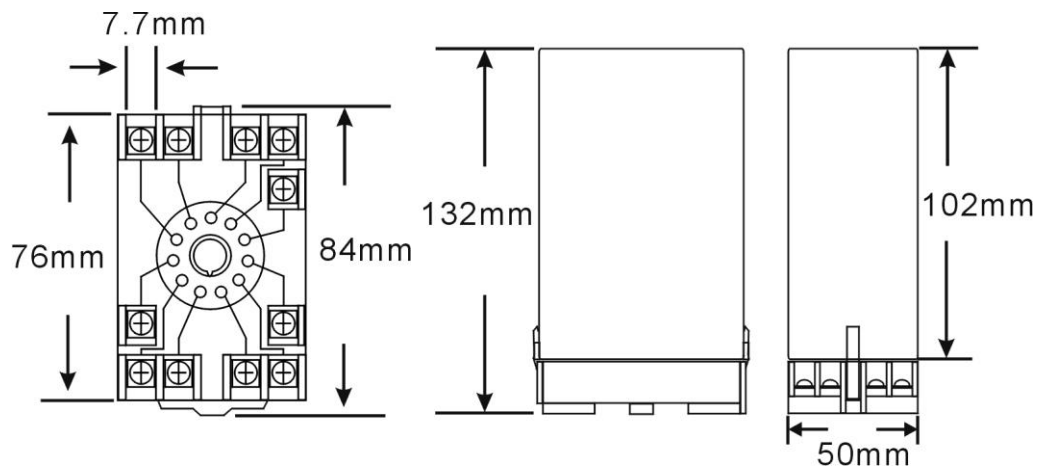
3. Calibration

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.

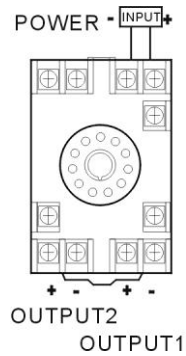


4. Dimensions

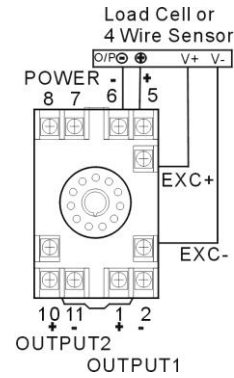


5. Wiring Connection

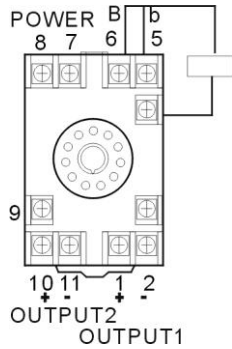
- Voltage (V), Current(A)(AC, DC)



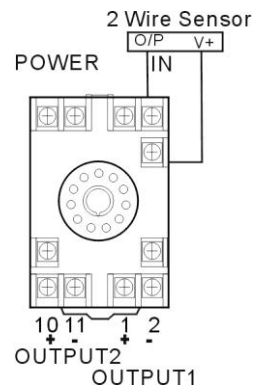
- 4 Wire Sensor or Load cell



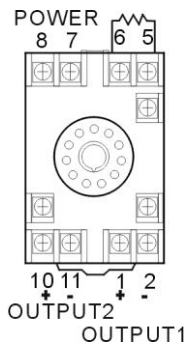
- Temperature (RTD)



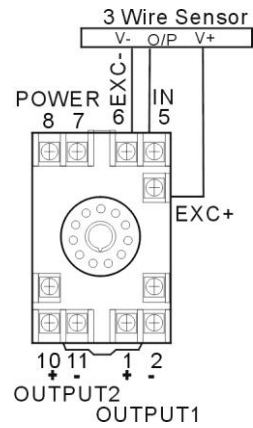
- 2 Wire Sensor



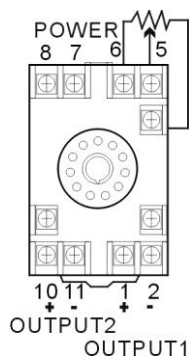
- 2 Wire Resistor



- 3 Wire Sensor



- 3 Wire Potentiometer



6. 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			D	AC/DC 24~60V	2	0~20mA	2	0~20mA
		V3		1~5V			3		0~5V	3	0~5V	
		V4		0~10V			4		0~10V	4	0~10V	
		V5		0~36V			O		Option	O	Option	
		V6		0~300V								
		V7		0~600V								
		VO		Option								
		A1		Current			0~20μA					
		A2					0~200μA					
A3	0~2mA											
A4	0~20mA											
A5	0~200mA											
A6	4~20mA											
AO	Option											
P1	Potentiometer	500Ω~10KΩ										
P2		10KΩ~100KΩ										
P3		100KΩ~1MΩ										
PO		Option										
I	2 Wire Resistor	I	Resistor	I1	0~10Ω							
				I2	0~100Ω							
				I3	0~1KΩ							
				I4	0~10KΩ							
				I5	0~100KΩ							
				IO	Option							
T	RTD (PT-100)	T	RTD (PT-100)	T1	-50~50℃							
				T2	0~50℃							
				T3	0~100℃							
				T4	0~200℃							
				T5	0~400℃							
				T6	0~600℃							
				TO	Option							
L	Load Cell	L	Load Cell	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							
				LO	Option							
2	2,3 Wire Sensor											
4	4 Wire Sensor											

- 1 : 2 wire type offers excitation power DC24V for 2 wire (Loop Power) pressure, temperature, humidity sensors using.
- 2 : 3.4 wire type offers excitation power DC24V for 3, 4 wire (Loop Power) pressure, temperature, humidity sensors using.
- 3 : Load Cell type of excitation power DC5V can have 2 load cell in parallel; DC10V only can offer 1 load cell to use.
- 4 : Please inquire salespersons for special type.