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## ATO2 SERIES PID TEMPERATURE CONTROLLER User's Manual

#### RESTRICTIONS ON USE 💳

When using this product in applications that require particular safety or when using this product in important facilities, please pay attention to the safety of the overall system and equipment. Install failsafe mechanisms, perform redundancy checks and periodic inspections and adopt other appropriate safety measures when it is necessary. This product is rated at Class II . Serviced by trained and skilled personnel only.

#### ATTENTION!

- Please read the SAFETY PRECAUTION section on reverse side before use of this product.
- 2.Please read this user's manual before use for proper operation.
- 3. Please safe guard this user's manual.

#### \*Function Setting \*

Warning! Please make sure the power is off, before making any changes on the DIP switch.

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ON 1 2 3 4 5 6			DIP Switch						
			1	2	3	4	5	6	
Input type	K Type	0~1200	)°C	ON	OFF	OFF			
	J Type	0~500°	С	ON	ON	OFF			
	R Type	0~1700	)°C	ON	OFF	ON			
	PT-100	-50~40	0°C	OFF	ON	ON			
Control Mode	ON/OFF CONTROL					OFF			
	PID CONTROL					ON			
Output	RELAY						OFF		
	DC 24V (for SSR)						ON		
Function Lock	NONE							OFF	
	ALL EXCEPT SV							ON	

#### List of Alarm Function:

1	Deviation High Alarm  OFF  SV-AS1  ON  PV					
2	Deviation Low Alarm  SV+AS1 ON OFF PV					
3	Process High Alarm OFF ON PV					
4	Process Low Alarm ON OFF PV					
5	Deviation High/Low Alarm   SV-AS1  → SV-AS1  ON OFF ON PV					
6	Band Alarm     SV-AS1 →					
7	Deviation High Alarm (Standby)					
8	Deviation Low Alarm (Standby)					
9	Process High Alarm (Standby)					
10	Process Low Alarm (Standby)					
11	Deviation High/Low Alarm (Standby)					
12	Band Alarm (Standby)					

#### \*Key Lock Setting \*



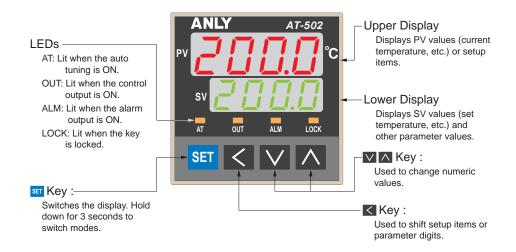
Under User Level, press V key for 3 second to enter Key Lock Mode.

Set Lock Number according to the level of protection.

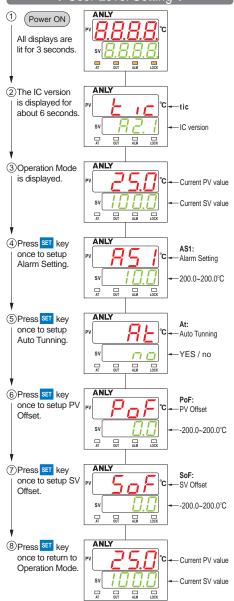
#### List of Key Lock Mode:

FER	usr	Pid	SEt	ArG
Others	0	X	×	×
0022	0	0	×	×
0111	0	0	0	×
1122	0	0	0	0

Symbol—): Can display and can be set X: Can't display nor can't be set



#### \* User Level Setting \*



#### \*SV Lock Setting \*



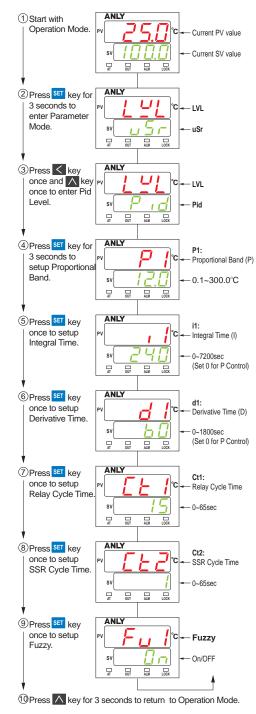
Under Operation Mode, press

+ A key for 1 seconds to lock the SV value.

And press  $\bigvee$  key for 1 seconds again to unlock the SV value.

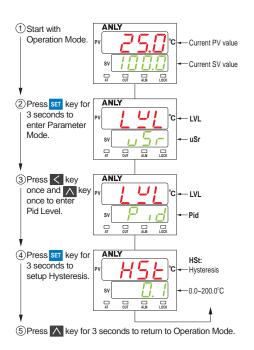
#### \* PID Control Setting \*

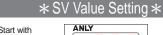
Set the DIP switch to PID Control before proceeding.

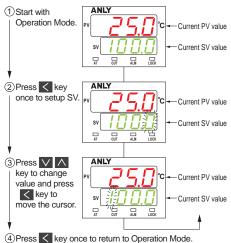




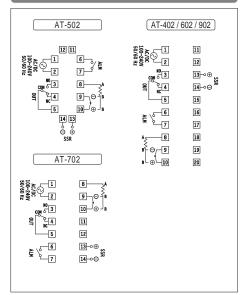
Set the DIP switch to ON/OFF Control before proceeding.

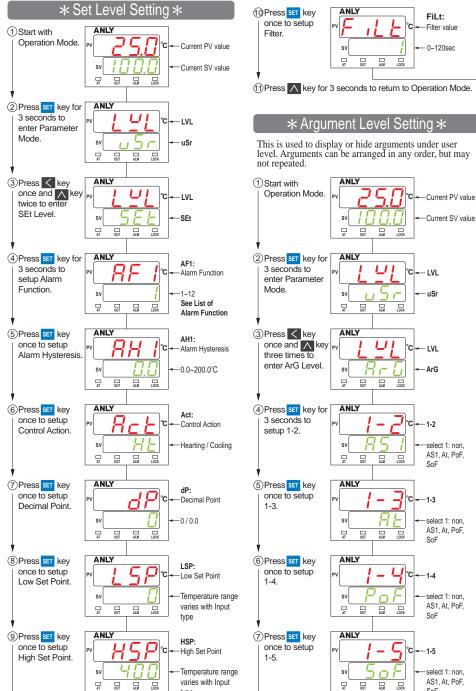




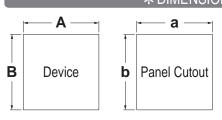


#### \* TERMINAL LAYOUT \*





### \* DIMENSIONS(mm) \*



AT02 series	Α	В	а	b	
AT-402	48	96	45.5 +0.5	91 +0.5	
AT-502	48	48	45.5 +0.5	45.5 +0.5	
AT-602	96	48	91 +0.5	45.5 +0.5	
AT-702	72	72	67.5 <sup>+0.5</sup>	67.5 <sup>+0.5</sup>	
AT-902	96	96	91 +0.5	91 +0.5	

8 Press key for 3 seconds to return to Operation Mode.

#### \*SAFETY PRECAUTION \*

**⚠ WARNING** Warnings are indicated when mishandling this controller might result in death or serious injury to user. Cautions are indicated when mishandling this controller might result in minor injury to the user, or only physical damage to the controller. **⚠** CAUTION

- Note this incorrect wiring of this controller can damage it and lead to other hazards. Make sure the controller has been correctly wired before turning the power ON.

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- ▲ Before wiring, or removing / mounting the controller, be sure to turn the power OFF. Failure to do so might cause electric shock.
- ⚠ Do not touch electrically charged parts such as the power terminals. Doing so might cause electric shock. 
  ⑤ Do not disassemble the controller. Doing so might cause electric shock or faulty operation.

#### **⚠** CAUTION

- Use the controller within the operating ranges recommended in the specification (temperature, humidity, voltage, shock, mounting direction, atmosphere and etc.). Failure to do so might cause fire or faulty operation.
   Do not block ventilation holes. Doing so might cause fire or faulty operation.
   Do not allow lead clippings, chips or water to enter the controller case. Doing so might cause fire or faulty operation.

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