

## SPECIFICATIONS

### DISPLAY SPECIFICATIONS

Display	4+4 digits, 7 segment LED dual display Height on Upper Display: 15.3mm Height on Lower Display: 8mm
LED	1. Output 1 ON      T: Auto tune
Indication	2. Output 2 ON      S: Dwell timer

### INPUT SPECIFICATIONS

Inputs	Thermocouple (J, K, T, R, S) / RTD (PT100)
Resolution	0.1 / 1° for TC / RTD inputs (fixed 1° for R & S type TC input)
Indication Accuracy	For J, K & T inputs: 0.25% of F.S. ±1° For R & S inputs: 0.55 of F.S. ±2° (20 min of warm up time for TC inputs) For RTD inputs: 0.1% of F.S. ±1° (F.S. = Full Scale)
Temperature Unit	°C / °F selectable
Input Filter (FTC)	0.2 to 10.0sec
Sampling Time	250ms

### OUTPUT SPECIFICATIONS

Control Output	Contact (SPST): 5A resistive @ 250V AC / 30V DC SSR drive (Voltage Pulse): 12V DC, 30mA
Auxiliary Output	Relay Contact (SPST): 5A resistive @ 250V AC / 30V DC

### FUNCTIONAL SPECIFICATIONS

Control Action	1) PID Control with auto tuning 2) ON-OFF Control
Proportional Band (P)	1.0 to 400.0°
Integral Time (I)	0 to 9999 sec
Derivative Time (D)	0 to 9999 sec
Cycle Time	0.1 to 99.9 sec
Hysteresis Width	0.1 to 99.9°
Manual Reset Value	-19.9 to 19.9°
Heat-Cool	Control Action: PID Proportional Band-Cool: 0.0 to 400.0° Cycle Time-Cool: 0.1 to 99.9 sec Dead Band: Programmable from set point low limit to set point high limit
Settings for Alarm Output	Modes: Deviation, Absolute Hysteresis: 0.1 to 99.9



48 x 48mm

## ATC560 Temperature Controller

### FEATURES

- 4+4 digits, 7-segment LED Dual Display
- TC / RTD Input
- PID, ON - OFF Control
- Auto Tuning / Self Tuning
- Two Set points
- °C / °F Selectable
- Field selectable Control Output (Relay or SSR)
- Auxiliary Output: Relay / SSR

### SPECIFICATIONS (CONT.)

#### AUXILIARY SUPPLY SPECIFICATIONS

Supply Voltage	85 to 270V AC/DC (50/60Hz)
Power Consumption	6VA max @ 230V AC

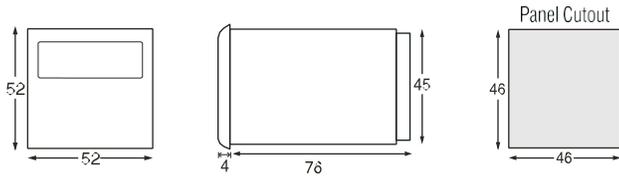
#### ENVIRONMENTAL SPECIFICATIONS

Temperature	Operating: 0 to 50°C Storage: -20 to 75°C
Humidity (non-condensing)	95% RH

#### MECHANICAL SPECIFICATIONS

Mounting	Panel
Weight	116 gms

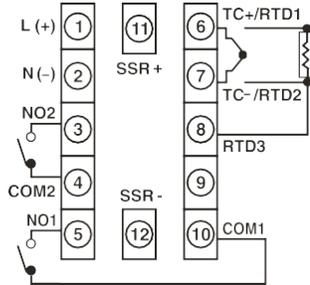
**DIMENSIONS**



**ORDERING INFORMATION**

MODEL NUMBER	OUTPUT 1		OUTPUT 2	SUPPLY VOLTAGE
ATC560S0PX	Relay	SSR	Relay	90-270V AC/DC
ATC560N0PX	Relay	SSR	Relay	12-240V DC

**TERMINAL CONNECTIONS**



**COMPLIANCE**

APPLICABLE EMI / EMC STANDARDS  
 PRODUCT STANDARD: IEC 61326-1

Category		Standards Compliance
ESD Immunity	IEC61000-4-2	Level III
Surge Immunity	IEC61000-4-5	+/- 2 kV common mode +/- 1 kV differential mode
Radiated Susceptibility	IEC61000-4-3	Level III, 80 to 1000MHz Level II, 1.4GHz to 2GHz Level I, 2GHz to 2.7GHz
Conducted Susceptibility	IEC61000-4-6	Level II
Voltage Dips & Interruptions	IEC61000-4-11	<b>Dips:</b> 0% residual voltage / 1 cycle (Criteria B), 40% residual voltage / 10 cycles 50Hz / 12 cycles 60Hz (Criteria Q) 70% residual voltage / 25 cycles 50Hz / 30 cycles 60Hz (Criteria Q) <b>Interruptions:</b> 0% residual voltage / 250 cycles 50Hz / 300 cycles 60Hz (Criteria Q)
Conducted Emission	CSFR-11	
Radiated Emission	CSFR-11	
Electrical Fast Transient	IEC61000-4-4	Level III

**INPUT SENSOR RANGES**

Sensor Type	Resolution	Ranges	
		1	0.1
PT100	°C	-150 to 850	-150 to 850
	°F	-238 to 1562	-199 to 999
J	°C	-199 to 750	-199 to 750
	°F	-328 to 1382	-199 to 999
K	°C	-199 to 1350	-199 to 999
	°F	-328 to 2462	-199 to 999
T	°C	-199 to 400	-199 to 400
	°F	-328 to 750	-199 to 750
R&S	°C	0 to 1750	NA
	°F	32 to 3182	NA