



48 x 48mm

## 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

#### DISPLAY SPECIFICATIONS

Display 4+4 digits, 7 Segment LED dual display  
 Height of Upper Display : 15.3mm  
 Height of Lower Display : 8mm

LED Indication 1. Output 1 ON T : Auto tune  
 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 : 0.5% 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 250 ms

### SPECIFICATIONS (CONT.)

#### OUTPUT SPECIFICATIONS

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

#### AUXILIARY SUPPLY SPECIFICATIONS

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

#### ENVIRONMENTAL SPECIFICATIONS

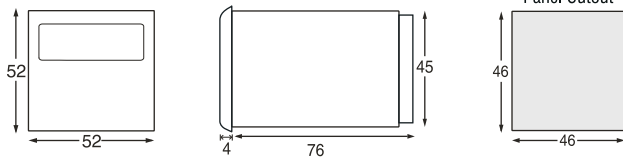
Temperature	Operating: 0 to 50°C Storage: -20 to 75°C
Humidity (non-condensing)	95% RH

#### MECHANICAL SPECIFICATIONS

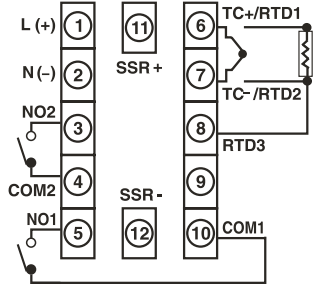
Mounting	Panel
Weight	116 gms

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**DIMENSIONS (MILLIMETERS)**



**TERMINAL CONNECTIONS**



**COMPLIANCE**

APPLICABLE EMI / EMC STANDARDS

PRODUCT STANDARD : IEC 61326-1

Category	Standards Compliance
ESD Immunity	IEC 61000-4-2 Level III
Surge Immunity	IEC 61000-4-5 +/- 2 kV common mode +/- 1 kV differential mode
Radiated Susceptibility	IEC 61000-4-3 Level III, 80 to 1000MHz Level II, 1.4GHz to 2GHz Level I, 2GHz to 2.7GHz
Conducted Susceptibility	IEC 61000-4-6 Level II
Voltage Dips & Interruptions	IEC 61000-4-11 <b>Dips:</b> 0% residual voltage / 1 cycle (Criteria B), 40% residual voltage / 10 cycles 50Hz / 12 cycles 60Hz (Criteria C) 70% residual voltage / 25 cycles 50Hz / 30 cycles 60Hz (Criteria C) <b>Interruptions:</b> 0% residual voltage / 250 cycles 50Hz / 300 cycles 60Hz (Criteria C)
Conducted Emission	CISPR-11
Radiated Emission	CISPR-11
Electrical Fast Transient	IEC 61000-4-4 Level III

**ORDERING INFORMATION**

Model Number	Output 1	Output 2	Supply Voltage
ATC560S0PX	RELAY	SSR	90 to 270V AC/DC
ATC560S0NX	RELAY	SSR	12-240V DC

**ACCESSORIES**

48X48 Clamp (Supplied with units)	XXX-XXX
Plastic Adapter Plate, 72x72 Existing Cutout	XXX-XXX
Plastic Adapter Plate, 96x96 Existing Cutout	XXX-XXX
Plastic Adapter Plate, 48x96 Existing Cutout	XXX-XXX

**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	N/A
	°F	32 to 3182	N/A