

SPECIFICATIONS

DISPLAY SPECIFICATIONS

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

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

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

Control Action	1) PID Control with auto tuning 2) ON-OFF Control
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Proportional Band (P)	1.0 to 400.0°
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Integral Time (I)	0 to 9999 sec
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Derivative Time (D)	0 to 9999 sec
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Cycle Time	0.1 to 99.9 sec
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Hysteresis Width	0.1 to 99.9°
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Manual Reset Value	-19.9 to 19.9°
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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
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Settings for Alarm Output	Modes: Deviation, Absolute Hysteresis: 0.1 to 99.9
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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
- $^\circ\text{C}$ / $^\circ\text{F}$ 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)
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Power Consumption	6VA max @ 230V AC
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ENVIRONMENTAL SPECIFICATIONS

Temperature	Operating: 0 to 50 $^\circ\text{C}$ Storage: -20 to 75 $^\circ\text{C}$
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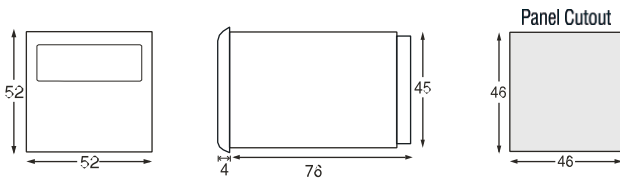
Humidity (non-condensing)	95% RH
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MECHANICAL SPECIFICATIONS

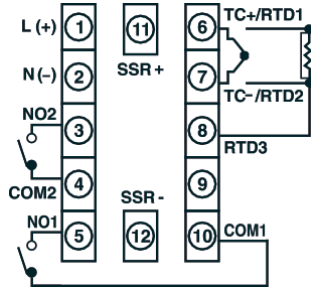
Mounting	Panel
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Weight	116 gms
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DIMENSIONS



TERMINAL CONNECTIONS



ORDERING INFORMATION

MODEL NUMBER	OUTPUT 1		OUTPUT 2		SUPPLY VOLTAGE
ATC560SOPX	Relay	SSR	Relay		90-270V AC/DC
ATC560NOPX	Relay	SSR	Relay		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, 48x796 Existing Cutout XXX-XXX

COMPLIANCE

APPLICABLE EMI / EMC STANDARDS

PRODUCT STANDARD: IEC 61326-1

Category	Standard	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	Dips: 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) Interruptions: 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

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