



## 1/16 DIN Temperature Controller

- Dual Display, 4 digit, 7 segment LED
- °C/°F selectable
- TC/RTD
- Field selectable Control Output (Relay or SSR)
- PID ON/OFF Control
- Auxiliary Output: Relay / SSR
- 2 Setpoints
- Easy to Use

### SPECIFICATIONS

<b>DIGITS</b>	4 digit, 7 segment LED Dual Display Height of Upper display: 0.3785" Height of Lower display: 0.2720"
<b>LED INDICATIONS</b>	Relay On, Tune, Soak Time
<b>INPUTS</b>	Thermocouple (J,K,T,R,S) / RTD (Pt100)
<b>SAMPLING TIME</b>	250ms
<b>INPUT FILTER (FTC)</b>	0.2 to 10.0 sec
<b>RESOLUTION</b>	0.1/1 (Fixed 1° for R & S type TC input)
<b>TEMPERATURE UNIT</b>	°C / °F selectable
<b>INDICATION ACCURACY</b>	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)

### OUTPUT SPECIFICATIONS

<b>CONTROL</b>	1
Contact Rating:	5A @250V AC / 30V DC, resistive
SSR Drive (Voltage Pulse):	12V DC ±10%,m50mA
<b>ALARM</b>	1
Contact Rating:	5A @ 230V AC / 30V DC, resistive
SSR Drive	12V DC (50mA)

### FUNCTIONAL SPECIFICATIONS

Control Action	1) PID 2) ON-OFF
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 (with auto-tuning)
Proportional Band-Cool	0.0 to 400.0°
Cycle Time-Cool	0.1 to 99.9 sec.
Dead Band	Programmable from setpoint low limit to setpoint high limit.

### SETTINGS FOR ALARM OUTPUT

Modes	Deviation, Absolute
Hysteresis	0.1 to 99.9°

**SUPPLY VOLTAGE** 85 to 270V AC/DC (50/60 Hz)

**POWER CONSUMPTION** 6 VA max @ 230V AC

**TEMPERATURE** Operating: 0 to 50°C  
Storage: -20 to 75°C

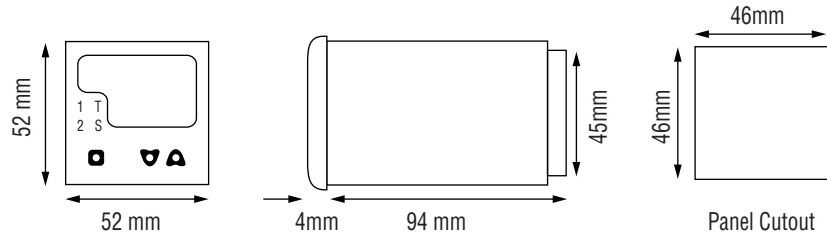
**HUMIDITY (NON CONDENSING)** 95% RH

**WEIGHT** 5 Oz.

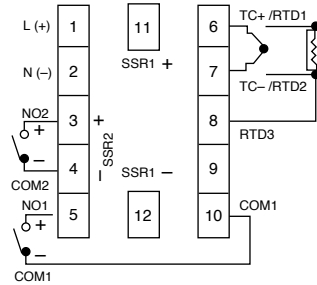
**PROTECTION LEVEL** IP65 for faceplate

**COMPLIANCE** IEC/EN 61326 (EMI/EMC)  
IEC/EN 61010 Revision 3  
2010 Edition (Safety)  
UL 61010 Revision 3  
2010 Edition (Safety)

**DIMENSIONS**



**TERMINAL CONNECTIONS**



**INPUT RANGES (TABLE 1)**

**FOR RTD**

Input		Ranges	
Resolution		1	0.1
Pt100	°C	-150 to 850	-150 to 850
	°F	-238 to 1562	-199 to 999

**FOR THERMOCOUPLE**

Input		Ranges	
Resolution		1	0.1
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

**ORDERING INFORMATION**

PART NO.	CONTROL OUTPUT	AUXILIARY OUTPUT	SUPPLY VOLTAGE
ATC550S00000	Relay 12V DC SSR	Relay	85-270V AC/DC
ATC550S10000	Relay 12V DC SSR	12V DC SSR	85-270V AC/DC

Note: Other models, options and accessories available. Please consult factory.