

## ATC Temperature Controller

**NEW**

- Dual 4-digit, seven segment LED display
- PID & On/Off control
- Thermocouple and RTD input
- °C / °F selectable
- Two setpoints
- Field selectable Control Output (Relay or SSR)
- Auxiliary Output - factory installed Relay or SSR
- 1/16 DIN Case, IP65 Front



**ATC550**

	INPUT RANGES		Resolution	
			1°	0.1°
Pt100 RTD	°C	-150 to 850	-150 to 850	
	°F	-238 to 1562	-199 to 999	
Thermocouple				
	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

ATC550S00000	ATC550 Temperature Controller with Aux Relay output
ATC550S10000	ATC550 Temperature Controller with Aux 12VDC SSR output

### SPECIFICATIONS

Inputs:	Thermocouple (J,K,T,R,S) / 3-wire RTD (Pt100)
Sampling Time:	250 ms
Input Filter (FTC):	0.2 to 10.0 seconds
Temperature Unit	°C / °F selectable
Indication Accuracy:	For J, K & T inputs: 0.25% of F.S. ±1° For R & S inputs: 0.5% of F.S. ±2° For RTD inputs: 0.1% of F.S. ±1°
Digital Filter:	Programmable from 0.05 seconds to 6.4 seconds
Excitation:	5, 10, 12, and 24 Vdc @ 25 mA, firmware selectable
Setpoint Adjustment:	-9999 to +9999 counts
Control Action:	PID or ON-OFF
Proportional Band (P):	1.0 to 400.0° (0.0 to 400.0° in cooling)
Times:	0 to 9999 sec Integral (I); 0 to 9999 sec Derivative (D)
Cycle Time:	0.1 to 99.9 sec (heat or cool)
Hysteresis Width:	0.1 to 99.9°
Manual Reset Value:	-19.9 to 19.9°
Heat-Cool Control:	PID (with auto-tuning)
Dead Band:	Programmable from setpoint low limit to setpoint high limit
Control Output:	One, field selectable as relay or SSR drive
SPST Relay:	Single pole, single throw normally open contact, 250 Vac or 30 Vdc at 5 A (resistive load)
SSR Drive:	Voltage pulse, 12 Vdc ±10%, 50 mA
Aux. (Alarm) Output:	One, factory set as either SPST relay or SSR drive, Selectable Deviation or Absolute control mode, 0.1 to 99.9° adjustable hysteresis
Display:	4 digit 7 segment dual LED display Height: 0.3785" (upper), 0.2720" (lower)
LED Indication:	Relay ON, Tune, Soak Time
Operating Temp.:	0 to 50°C (32 to 122°F), <95% RH (non-condensing)
Line Voltage:	85-270V AC/DC, 50-60 Hz, 6VA max. at 230V AC
Dimensions:	52x52x100 mm, 46x46 mm panel cutout (1/16 DIN)