

## ATC Temperature Controller

- 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	

### 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)

### ORDERING INFORMATION

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

## Sifam Tinsley Temperature Controller

- Universal measuring inputs
- Binary input control
- Set point value: fixed value, programmed or from Input 2
- On/Off, PID, PID step-by-step control (valve control) or PID of heating-cooling type
- Soft start
- 8 alarms modes
- Timer function
- Measurement of heater current and heater burning control



RE72



### SPECIFICATIONS

Input:	Universal RTD, T/C, DCV, DCmA
Thermocouple:	J, K, T, B, E, R, S, N, L
RTD:	Pt100, Pt1000
DC Process:	0/4-20 mA or 0-5/10 VDC
Error:	V & mA: 0.2% ±1 digit RTD: 0.2% J, K, T, E, N, L: 0.3% R, S, B: 0.5% T/C Cold Junction: <2°C
Control Action:	Auto-tuning PID, On/Off, three-step heating/cooling, step-by-step
Alarms:	6 types with programmable hysteresis & latch
Logic Input:	One voltageless binary
Display:	Dual 4 digit; 10mm digit height
Relay Outputs:	Form A (NO) contacts
Transistor Outputs:	One or two 0/5V optional (20mA max.)
Analog Outputs:	One or two, 0-10V (1kΩ load min.) or (optional) 0/4 - 20mA (500Ω max.)
Digital Interface:	RS-485 Modbus RTU slave, 2.4-115.2 kbps
Operating Temperature:	0 to 50°C, <85% RH non-condensing
Protection:	IP65 front
Operating V to Earth:	Supply circuits and relays: 300V Inputs, interface & analog outputs: 50V
Dimensions:	48x48x93mm

### ORDERING INFORMATION

To Order—Insert Code for Each Letter to Select Catalog Number.

Order Example: RE72-1-2-4-1-00E

RE72 - A - B - C - D - 00E

A	Output 1	
	1	Relay (2A@230VAC)
	2	Binary voltage (transistor) 0/5V, 40mA max.
	3	Analog current 0/4-20mA
B	Output 2	
	1	Relay (2A@230VAC)
	2	Binary voltage (transistor) 0/5V, 40mA max.
	3	Analog current 0/4-20mA
C	Option	
	0	None
	1	Output 3 relay (1A@230VAC)
	2	Binary input
	3	Current transformer input
E	Supply	
	0	85-253V AC/DC (50/60Hz)
	1	20-40V AC/DC