

Temperature/Process Controllers — continued

ON/OFF, P or PI Control – Infra-Red



Temperature Controller H = 33, W = 75, D = 64
Panel cut-out = 71 29
Infra-Red Remote Transmitter H = 18, W = 60, D = 160
Transformer H = 34, W = 58, D = 47

Temperature Controllers

- Digital LED display, sealed to IP65 and CE marked. Panel mountable.
- Programming functions include set-point limits, alarm status, offset and control action
- Provides 9 standard modes of operation. Built-in buzzer (except 645-345)
- Can accept parameters via optional infra-red remote transmitter (except 645-345)
- 12V ac/dc supply voltage can be provided by optional transformer
- Applications include air-conditioning, refrigeration, food processing, driers and ovens

Infra-Red Remote Transmitter

- Once enabled, programmes several controllers rapidly. Requires 2 AA batteries.
- Each controller has a unique code. Parameters can only be changed when code is identified

Input options	NTC, PT100, J or K Thermocouple depending on model		
Operating range	NTC = -50 to +90°C; PT100 = -99 to +600°C J = -99 to +880°C; K = -99 to +999°C		
Resolution	0.1 or 1 unit, according to display value (autoranging)		
Accuracy	±0.5% of max. range		
Supply voltage	12 to 24V ac/dc ±10%		
Power consumption	3VA max.		
Working temperature	0 to 50°C		
Output configuration	645-345, 939-961, 939-973	1 SPDT relay	
	645-357 and 645-369	1SPST relay	
	645-370 and 645-382	1 SPST relay + 1 SPDT relay	
	939-985, 939-997 and 940-008	4 SPST relays	
	940-010	1 SPNO 12V dc SSR drive	
Relay rating	8A @ 250V ac max.		

Mfrs. List No.	IR32V0E000 = 645-345, IR32W10000 = 645-370, TRA12UN100 = 645-400, IR32VOL000 = 939-961, IR32Z10000 = 939-997, NTC015W = 940-021	IR32V1L000 = 645-357, IR32W20000 = 645-382, TRA11UN100 = 645-412, IR32SOLBRO = 939-973, IR32Z20000 = 940-008,	IR32V2L000 = 645-369, IRTRUE0000 = 645-394, NTC015HP = 645-424 IR32COLBRO = 939-985, IR32D2L000 = 940-010,
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PLC116X

Temperature Controllers		Order Code	1+	5+	10+	25+
1 Relay	NTC (economic)	645-345				
1 Relay	NTC (remote control)	939-961				
1 Relay	PT100	645-357				
1 Relay	J/K	645-369				
2 Relay	PT100	645-370				
2 Relay	J/K	645-382				
4 Relay	PT100	939-997				
4 Relay	J/K	940-008				
1 Relay	NTC (static refrigeration)	939-973				
4 Relay	NTC (ventilated refrigeration)	939-985				
1 SSR Drive	J/K	940-010				
Infra-Red Remote Transmitter		645-394				
Transformer						
240V ac to 12V ac		645-400				
120V ac to 12V ac		645-412				
Probe — 1.5M Cable						
NTC (IP65, plastic)		645-424				
NTC (IP67, steel)		940-021				

ON/OFF, P or PI Control — Infra-Red
Humidity & Air Pressure (Process)



H = 33, W = 75, D = 64, Panel cut-out = 71 29

Controllers

- Digital green LED display, sealed to IP65
- Programming functions include:- set-point limits, alarm, status, offset and control action
- Built-in buzzer CE marked
- Can accept parameters via optional infra-red remote transmitter
- 12V ac/dc mains supply voltage can be provided by optional transformers
- Scalable input ranges
- Applications include:- environment chambers, air-conditioning, driers, etc.

Infra-Red Remote Transmitter

- Once enabled, programmes several controllers rapidly. Requires 2 AA batteries
- Each controller has a unique code. Parameters can only be changed when code is identified

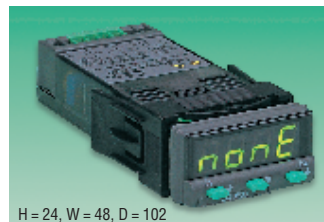
Input options	-0.5 to +1V dc or 0-20mA/4-20mA	
Operating range	scaleable -99 to +999	
Resolution	0.1 or 1 unit, according to display value (autoranging)	
Accuracy	±0.5% of max. range	
Supply voltage	12V to 14V ac/dc ±10%	
Power consumption	3VA max	
Working temperature	0 to 50°C	
Output configuration	940-033	1SPST relay
	940-045	1SPST relay + 1SPDT relay
Relay rating	8A @ 250V ac max.	

Mfrs. List No.	IR32V4L000 = 940-033, IRTRUE0000 = 645-394, TRA11UN100 = 645-412,	IR32W30000 = 940-045, TRA12UN100 = 645-400, ASDH100000/1 = 898-326
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PLC163

	Inputs	Order Code	Price Each			
			1+	5+	10+	25+
Humidity Controller						
1 Relay	-0.5 to +1V dc	940-033				
Air-Pressure (Process) Controller						
2 Relay	0-20mA/4-20mA	940-045				
Infra-Red Transmitter						
		645-394.				
Transformers						
240V ac to 12V ac/dc		645-400.				
120V ac to 12V ac/dc		645-412.				
Humidity Probe						
		898-326				

PID Control - '3200 1/32 DIN'.



H = 24, W = 48, D = 102



- Ultra compact, sealed front fascia (24x48mm) to NEMA 4X/IP66
- PID autotune, automatically matches PID settings to the application
- Dual output, 2A relay & SSR drive for alarms or heat/cool operation
- Bright LED 4 digit display configurable in °C, °F and engineering units
- Selectable inputs include 9 thermocouples, RTD/PT100 and linear process
- Zero and span adjustment for on site calibration
- Matching 1/16 DIN panel adaptors for retro-fit replacement of 1/16 DIN units
- Low supply voltage versions 12/24V ac/dc available
- Operator lockout, three levels for operational security

Supply voltage	100-240Vac ±10%, 50-60Hz 3VA 12V or 24V ac/dc ±20%
Outputs	Relay: 2A @ 250Vac (resistive) SSR Drive: 10mA @ 5Vdc
Temperature range	User selectable between -200 to 1800°C
Sensor types	Thermocouple B,E,J,K,N,R,S,T and RTD/PT100
Linear Input	-10°C to 50mV
Calibrated accuracy	+/- 0.25% sensor maximum +/- 1°C
Ambient conditions	0 to 50°C

PLC155X

	Mfrs. List No.	Order Code	1+	5+	10+	25+
Temperature Controllers						
100-240Vac	320.000	.737-227				
12Vac/dc	320.040	.737-239				
24Vac/dc	320.050	.737-240				
Panel Adaptors						
1/16 DIN	301.610	.737-252				
Twin Mounting	301.620	.737-264				