

TEMPERATURE

Leaders in Temperature Measurement Technology



- HVAC
- Packaging
- Food & Beverage
- Transportation
- Pumps & Compressors
- Refrigeration
























TEMPERATURE

PROGRAMMABLE SWITCHES






















LIMIT SWITCHES

INDICATORS

										
Series	TS2	TS	TCS	TSS2	TSX	TSWB	TSF	16L	TID	TI
Range	-50 to 150°C (-58 to 302°F)	-50 to 150°C (-58 to 302°F)	0 to 700°C (32 to 999°F) for J thermocouple; 0 to 999°C (32 to 999°F) for K and S thermocouple	-50 to 150°C (-58 to 302°F)	PTC: -50 to 150°C (-58 to 302°F); NTC: -50 to 110°C (-58 to 230°F)	-50 to 150°C (-58 to 302°F)	0 to 700°C (32 to 999°F) for J thermocouple; 0 to 999°C (32 to 999°F) for K and S thermocouple	-73 to 1300°C (-100 to 2372°F)	-99 to 999 counts	-50 to 99°C (-58 to 99°F)
Control Type	On/Off, Heat/Cool	On/Off, Heat/Cool	On/Off, Heat/Cool	On/Off, Heat/Cool	On/Off, Heat/Cool	On/Off, Heat/Cool	High/Low limit alarm	High/Low limit alarm	—	—
Input	PTC thermistor 1000Ω @ 25°C	PTC thermistor 1000Ω @ 25°C	Type J, K or S thermocouple	PTC thermistor 1000Ω @ 25°C	NTC/PTC thermistor 1000Ω @ 25°C	PTC thermistor 1000Ω @ 25°C	Type J, K or S thermocouple	Thermocouple, RTD, current or voltage	Current, PTC or NTC thermistor 1000Ω @ 25°C (depending on model)	PTC thermistor 1000Ω @ 25°C
Output	16A SPDT relay @ 250 VAC resistive 5A inductive	16A SPDT relay @ 250 VAC resistive 5A inductive	16A SPDT relay @ 250 VAC resistive 5A inductive	8A SPDT relay @ 250 VAC 16A SPDT relay @ 250 VAC	One 16A SPST relay @ 250 VAC resistive; One 5A SPDT relay @ 250 VAC resistive; One 3A SPST relay @ 250 VAC resistive	One 16A @ 250 VAC; Two 5A @ 250 VAC	One 16A SPDT relay @ 250 VAC resistive, 5A inductive	Up to 2 3A SPST relays @ 240 VAC resistive, 1.5A @ 240 VAC inductive	—	—
Horsepower Rating	1 HP @ 240 VAC	1 HP @ 240 VAC	1 HP @ 240 VAC	1 HP @ 240 VAC	1 HP @ 240 VAC for 16A relay	1 HP @ 240 VAC for 16A relay	1 HP @ 240 VAC	—	—	—
Power Requirements	110 VAC, 230 VAC, 12 VDC/AC, 24 VDC/AC	110 VAC, 230 VAC, 12 VDC/AC, 24 VDC/AC	110 VAC, 230 VAC, 12 VDC/AC, 24 VDC/AC	110 VAC, 230 VAC, 12 VDC/AC, 24 VDC/AC	110 VAC, 230 VAC, 12 VDC/AC, 24 VDC/AC	110 VAC, 230 VAC, 12 VDC/AC, 24 VDC/AC	110 VAC, 230 VAC, 12 VDC/AC, 24 VDC/AC	100 to 240 VAC, 132 to 240 VDC	110 VAC, 230 VAC, 12 VDC/AC, 24 VDC/AC	110 VAC or 230 VAC (depending on model)
Accuracy	±1°C	±1°C	±1°C	±1°C	±1°C	±1°C	±1°C	±0.25% of span, ±1 least significant digit	±1°C	±1°C
Display	3 digit, red, 1/2" digits	3 digit, red, 1/2" digits	3 digit, red, 1/2" digits	3 digit, red, 1/2" digits	3 digit, red, 1/2" digits	3 digit, red, 1/2" digits	3 digit, red, 1/2" digits	Two 4 digit displays, 7.62 mm (0.3")	3 digit, 1/2" digits	2 digit plus sign, red, 1/2" digits
Features	Easy multi-unit programming	Polycarbonate key pad, probe included	Easy, multi-unit programming	Dual stage temperature control	Up to 3 outputs and inputs	3 relay outputs, water level input	Local or remote manual reset	Universal input, fits 1/16 DIN cut out	Outputs 12 VAC supply voltage	Large red display
Front Panel Rating	IP64	IP64	IP64	IP64	IP64	IP64	IP64	IP65	IP64	IP64
Agency Approvals										

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CONTROLLERS

										
Series	32A	32B	32DZ	16A	16B	16C	2600	4B	SCD	SCZ
Size	1/32 DIN	1/32 DIN	1/32 DIN	1/16 DIN	1/16 DIN	1/16 DIN	1/4 DIN	1/4 DIN	—	—
Control Type	PID, On/Off	PID, On/Off	PID, On/Off	PID, On/Off	PID, On/Off	PID, On/Off	PID, On/Off	PID, On/Off	PID, On/Off	PID, On/Off
Input	Thermocouple, RTD, DC voltage or DC current (selectable)	Thermocouple, RTD, DC voltage or DC current (selectable)	Thermocouple, RTD, DC voltage or DC current (depending on model)	Thermocouple, RTD, DC voltage or DC current (selectable)	Thermocouple, RTD, DC voltage or DC current (selectable)	Thermocouple or RTD (selectable)	Thermocouple, RTD, DC voltage or DC current (selectable)	Thermocouple, RTD, DC voltage or DC current (selectable)	Thermocouple, RTD, DC voltage or DC current (selectable)	Thermocouple, RTD, DC voltage or DC current (selectable)
Output	AC or DC SSR, 3A SPST relay, 0 to 20 mA or 5 VDC switched voltage (depending on model)	5A SPST relay, 0(4) to 20 mA or 14 VDC switched voltage (depending on model)	AC or DC SSR, 3A SPST relay, 0 to 20 mA or 5 VDC switched voltage (depending on model)	AC or DC SSR, 3A SPST relay, 0 to 20 mA or 15 VDC switched voltage (depending on model)	5A SPST relay, 0(4) to 20 mA or 14 VDC switched voltage (depending on model)	5A SPST relay, 0(4) to 20 mA or 14 VDC switched voltage (depending on model)	AC SSR, 10A SPST relay or 0 to 20 mA (depending on model)	5A SPST relay, 0(4) to 20 mA, 0 to 10 VDC or 14 VDC switched voltage (depending on model)	3A SPST relay, 0(4) to 20 mA, 0 to 10 VDC or 12 VDC switched voltage (depending on model)	3A SPST relay, 4 to 20 mA or 12 VDC switched voltage (depending on model)
Power Requirements	100 to 240 VAC, 132 to 240 VDC	100 to 240 VAC	100 to 240 VAC, 132 to 240 VDC	100 to 240 VAC, 132 to 240 VDC	100 to 240 VAC	100 to 240 VAC	100 to 240 VAC, 132 to 240 VDC	100 to 240 VAC	24 VDC	120 to 240 VAC, 24 VAC/DC
Accuracy	±0.25% of span; ±1 least significant digit	±0.25% of span; ±1 least significant digit	±0.25% of span; ±1 least significant digit	±0.25% of span; ±1 least significant digit	±0.25% of span; ±1 least significant digit	±0.25% of span; ±1 least significant digit	±0.25% of span; ±1 least significant digit	±0.25% of span; ±1 least significant digit	—	±0.25% of span; ±1 least significant digit
Display	Two 4 digit, 7 segment, 6.35 mm (0.25") LED's	Two 4 digit, 7 segment, 6.35 mm (0.25") LED's	Two 4 digit, 7 segment, 6.35 mm (0.25") LED's	Two 4 digit, 7.62 mm (0.3") LED's	Two 4 digit, 7 segment, 6.35 mm (0.25") LED's	Two 4 digit, 7 segment, 6.35 mm (0.25") LED's	Two 4 digit, 7 segment, 14.2 mm (0.56") LED's	Two 4 digit, 7 segment, 19 mm (0.75") LED's	—	Two 4 digit, 7 segment, 7.5 mm (0.295") LED's
Features	Fuzzy logic, illuminated keypad	64 step ramp & soak, RS-485 Modbus® communications	Independent dual zone control	Optional process signal output remote set point	RS-485 Modbus® communications, optional CT input	Auto-tuning, RS-485 Modbus® communication	Built-in 24V power supply, fuzzy logic	RS-485 Modbus® communications, optional CT input	Up to 8 independent PID loops	Local indication and can mount to DIN rail
Front Panel Rating	IP66	IP66	IP66	IP66	IP66	IP66	IP66	IP66	—	—
Agency Approvals										



Leaders in Temperature Measurement Technology

A word on our Temperature Brochure...

Love Controls has and continues to be a leading manufacturer and innovator in industrial temperature controls and switches. Love offers controllers and switches in a variety of configurations and feature sets to solve your most demanding applications.

Love is proud to complement this extensive line with its new Series TSF FM Approved Limit Control and Series SCD DIN Rail Mount Temperature/Process Controller. The Series TSF is capable of being a high or low limit on a variety of applications such as commercial water boilers and ovens. The control can be manually reset either through the front panel or a remote reset button. The Series SCD is capable of controlling up to 8 PID loops by connecting slave controls to the master controls. It is programmed via RS-485 Modbus® Serial Communications.

We have always felt that the best does not have to cost you the most, and encourage you, the customer, to check out our value and what we believe to be the most competitively priced products on the market.

Sincerely, The Love Controls Team

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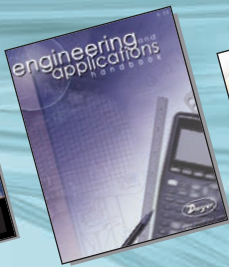
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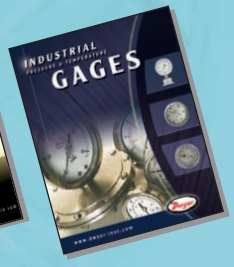
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