

Thermostats and indicators from a market leader in temperature control

CAL Controls are a major supplier of temperature and process control products to manufacturing, scientific and process industries. Since CAL was established over 40 years ago, the company has grown into a market leader by providing affordable products that incorporate the latest technology.

CAL's range of easy-to-use digital thermostats are ideal for heating and refrigeration applications where ON/OFF control is required.

Digital Thermostats

- 34 x 77mm Fascia (29 x 71mm cut-out)
- J-type thermocouple, PT100 or PTC/NTC inputs
- On-off control
- Single or dual outputs



	ETC1311	ET1311	ET1312
Number of digits	3	3	3
LED colour	Red	Yellow	Yellow
Input type	J thermocouple or 2-wire PT100	PTC or NTC	PTC or NTC
Temperature range	0 to 600°C J-Type -100 to 600°C PT100	-50 to 150°C (100°C max. NTC)	-50 to 150°C (100°C max. NTC)
Number of outputs (relay, 8A)	1	1	2
High / low setpoint limits	✓	✓	✓
Heating control only	✓		
Heating or cooling control		✓	✓
Probe offset adjustment	✓	✓	✓
Alarm output (full scale, deviation or band)			✓
230V supply voltage option	AC	AC	Tx required
12V supply voltage option	AC*	AC/DC	AC/DC
24V supply voltage option	AC*	AC/DC	AC/DC

*9-30V DC is available as an extra cost option

Specification			
Dimensions	H34 x W77 x D70mm	Control output	Relay: 250Vac, 8A(resistive) SPDT (16A SPST option, ETC1311)
Display	3 Digits, 14mm	Alarm output	Relay: 250Vac, 8A(resistive) SPST
Scale range	0 to 600°C J-Type thermocouple -100 to 600°C PT100 -50 to 150°C PTC / 100°C NTC	Supply voltage	230Vac, +10%-20%, 50-60Hz 12Vac/dc or 24Vac/dc, ±10%, 50/60Hz, 9-30VDC (ETC1311,option) (select option)
Resolution	1°	Operating temperature	0 - 50°C
Accuracy	0.5% full scale ±1 digit (ETC1311 only) ±1°C (ET1311 & ET1312)	Wiring	2.5mm ² screw terminals
Control type	On-off	Protection	IP65
Hysteresis	0 - 20°C (ETC1311, 1-20°C)		

Ordering (part number)

MODEL NUMBER	SENSOR TYPE	VOLTAGE	16A relay
ETC1311	FE (J-Thermocouple,ETC1311 only)	230**	P (ETC1311)
ET1311	R (2-wire PT100, ETC1311 only)	12	option
ET1312	NTC (ET1311 & ET1312 only) PTC (ET1311 & ET1312 only)	24	

**ET1312 requires a transformer

Example

ETC1311	-	FE	-	230
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