# WEST
## Control Solutions

# Thermostats

# Thermostats

The CAL thermostat range is a complete family of small format devices for basic heating or cooling applications and also includes indicators and timers for associated monitoring and control.

The units are easy to configure and use, have a large clear display with good visibility and a compact design that is fast to install.

The EDT defrost models have many features to ensure optimum control and performance of a refrigeration system such as compressor protection, defrost control, real time clock, communications and fast CAL-Key programming.
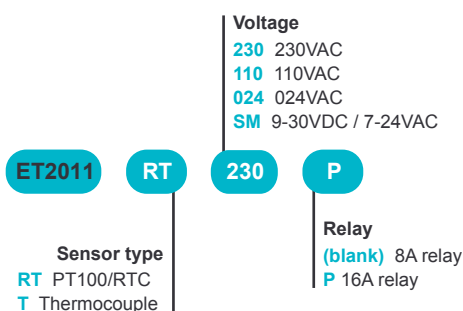
# Digital Thermostats

- Heating or cooling applications
- Thermocouple or PT100 inputs
- 2 outputs for control and alarms
- 35 x 77mm format (29 x 71mm cutout)

| | ET2011 | |
|---|---|---|
| **Input type** | Thermocouple (J, K, T, S, R) or PT100 | |
| **Temperature range** | PT100 | -99.9 to 300.0°C | (-99.9 to 543.0°F) |
| | PT100 | -200 to 600°C | (-328 to 1112°F) |
| | J T/C | 0 to 600°C | (32 to 1112°F) |
| | K T/C | 0 to 1300°C | (32 to 2372°F) |
| | T T/C | 0 to 400°C | (32 to 752°F) |
| | S & R T/C | 0 to 1700°C | (32 to 3092°F) |
| **Control type** | On/Off, PID | |
| **Control strategy** | Heat or cool control | |
| **Number of relay outputs (8A)** | 1 | |
| **Number of SSR outputs** | 1 | |

**Voltage**
**230** 230VAC
**110** 110VAC
**024** 024VAC
**SM** 9-30VDC / 7-24VAC

| ET2011 | RT | 230 | P |

**Sensor type**
**RT** PT100/RTC
**T** Thermocouple

**Relay**
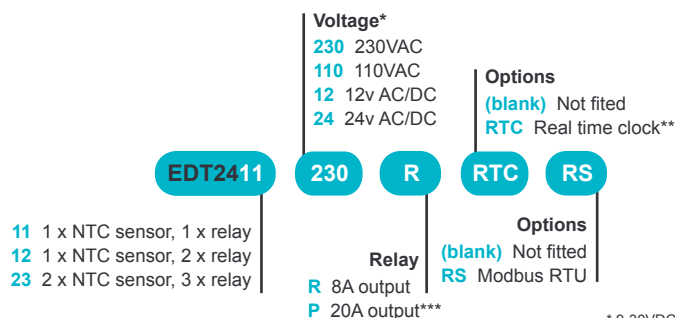**(blank)** 8A relay
**P** 16A relay

# Defrost Thermostats

- Compressor, defrost and fan control
- Up to two NTC inputs for main and defrost temperature measurement
- Manual, timed and evaporator temperature defrost modes supported
- 35 x 77mm format (29 x 71mm cutout)
- CAL-Key for fast configuration
- Real-time clock option
- RS485 communications option

| | EDT2411 | EDT2412 | EDT2423 |
|---|---|---|---|
| Input type and number | NTC x 1 | NTC x 1 | NTC x 2 |
| Temperature range | -60 to +150°C (-76 to +302°F) | -60 to +150°C (-76 to +302°F) | -60 to +150°C (-76 to +302°F) |
| Defrost function | Manual (key or DI)/ auto timed | Manual (key or DI)/ auto timed | Manual (key or DI)/ timed/ evaporator temp |
| Number of relay outputs (8A) | 1 | 2 | 3 |
| High current relay option - compressor output (20A) | ● | ● | |
| Defrost output | | ● | ● |
| Fan output | | | |
| Defrost sensor input | | | ● |
| CAL-key flash memory programming | ● | ● | ● |
| Real time clock option | ● | ● | ● |
| RS485 Modbus communications option | ● | ● | ● |

**Voltage***
**230** 230VAC
**110** 110VAC
**12** 12v AC/DC
**24** 24v AC/DC

**Options**
**(blank)** Not fited
**RTC** Real time clock**

| EDT2411 | 230 | R | RTC | RS |

**11** 1 x NTC sensor, 1 x relay
**12** 1 x NTC sensor, 2 x relay
**23** 2 x NTC sensor, 3 x relay

**Relay**
**R** 8A output
**P** 20A output***

**Options**
**(blank)** Not fitted
**RS** Modbus RTU

* 9-30VDC, 7-24VAC version is also available as an extra cost option
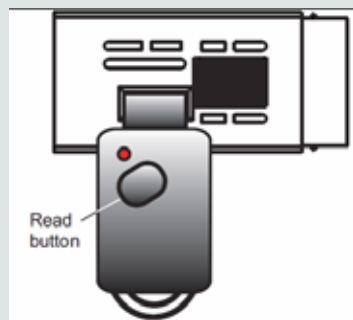** only available with 8A relay devices
*** not on EDT2423

| Description | |
|---|---|
| NTC-APS--1,5S | Air probe, maximum 150 °C, stainless steel shell, 1,5m silicone cable |
| NTC-LPS--1,5S | Liquid probe, maximum 150 °C, stainless steel shell, 1,5m silicone cable |
| NTC-APP--1,5P | Air probe, maximum 80 °C, plastic shell, 1,5m PVC cable |
| NTC-APT--1,5T | Air probe, maximum 105 °C, thermoplastic shell, 1,5m thermoplastic cable |

NTC-APT

NTC-APP

NTC-APS    NTC-LPS

## CAL Key

Save time programming EDT thermostats with **CAL-Key**.

- Upload configuration to key for cloning settings
  to additional devices

- Powered or unpowered configuration, key has battery

Read button

## Contact us

**For more details on the full product range from West Control Solutions please visit www.West-CS.co.uk.**

**WEST** (PMA) **CAL Partlow**