# **Drayton**

# RTS Thermostat Installation instructions

#### Models

RTS1: Standard heating thermostat

RTS2: Heating thermostat with call for heat LED indicator

RTS3: Indoor frost thermostat

RTS4: \*Volt free heating/cooling change over switch

RTS9 & 10: \*Volt free heating/cooling changeover switch with call

for heating LED indicator

### IMPORTANT NOTE

RTS thermostats are ELECTRONIC with a relay output. Unless connected to a 230V mains supply the relay will not operate, no 'click' will be heard and the call for heat

contact will remain open.

#### Location

Care should be taken to mount the thermostat in a position which is not subject to direct sunlight or draughts. Preferably it should be mounted on an inside wall about 1.5m (5ft) above the floor in a position where it can respond to room temperature but away from the direct influence of radiators or other appliances giving off heat.

Note: If the thermostat is to be used as a frost protection device it should be located in the coldest part of the premises.

## Fixing

- Loosen the securing screws, remove the wall-plate and, if surface wiring is to be used, snap out the cable entry strip on the bottom edge of the wall-plate with a pair of pliers.
- Fix the wall-plate, terminals at the top, either direct onto a flat wall using wall plugs and No 6 x 1" woodscrews or on a flush mounting single conduit box using M 3.5 x 14 screws.
- Complete the wiring to the wall-plate in accordance with the relevant diagram shown overleaf in accordance with I.E.T. regulations.

Note: The thermostat is for fixed wiring only and is double insulated, the earthing continuity (loop) terminal is only provided for convenience.

- Plug the thermostat onto the wall-plate and tighten the securing screws.
- 5. Before switching on the mains **ENSURE THE CIRCUIT FUSE IS 3A.**

## WARNING

Disconnect mains supply before fitting or removing from wall-plate.

A switch having contact separation of at least 3mm in all poles must be incorporated in the fixed wiring as a means of providing full disconnection of the mains supply.

#### Setting

- Set the desired room temperature on the control knob against the setting mark.
- The setting range may be limited or a particular setting locked through the use of the mechanism to be found under the control knob.
- To adjust the limiters firstly set the thermostat to the desired temperature and then carefully pull off the knob.
- Lift and rotate the two limiting arms to re-position them in the required notches.
- Replace the knob with the previously set temperature against the setting mark.

## Technical data

Electrical supply: 230V ac 50Hz fused 3A

Double insulated (no earth required)

Temp. range: RTS1, 2, 4 & 9 10° to 30°C

RTS3 (Frost) 3° to 10°C RTS10 14° to 30°C

Switch type: RTS 1, 2 & 3 S.P.S.T 2(1)A 230V ac live

output

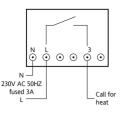
RTS4, 9 & 10 S.P.D.T 2(1)A 230V ac volt free

Temp. sensor: Electronic

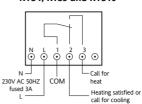
#### Wiring (schematic)

Note: It is essential to make a neutral connection to terminal N.

### RTS1, RTS2 and RTS3



#### RTS4, RTS9 and RTS10



Note: Link between terminals L and 1 if mains voltage is required on the thermostat switch.

Note that the output contacts are voltage-free\* so power needs to be put on to Terminal 1 either by linking from Terminal L or from a separate supply with a 3A fuse.

\*Not SELV - Fixed wiring only, to comply with currect IET regulations.

#### Information

The RTS room thermostat replaces earlier models of both ACL and Drayton room thermostats subject to a maximum load of 2(1)A 230V ac. The wiring conversion between these models is:

	ACL TS142	ACL TA350	Drayton Roomstat RT (E)	RTS 1,2 & 3	RTS 4, 9, & 10
Live supply	1	-	1	L	L
Neutral (accelerator heater)	4	-	4	N	N
Call for heat	2	3	2	3	3
Heating satisfied (call for cooling)	-	2	3	-	2
Volt free switch common	-	1	-	-	1
Earth connection	Е	5	-	-	-

#### Conforms to the essential requirements of the following Energy Class: | = 1%

## Directives:

## Relevant EU Directives 2014/35/EU Low Voltage Directive 2014/30/EU Electromagnetic Compatibility Directive

2011/65/EU RoHS Directive 2012/19/EU WEEE Directive Applied Standards EN60730-1, EN60730-2-9

(According to EU 811/2013, 812/2013 813/2013, 814/2013)

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This product should not be disposed of with household waste. Please recycle the products where facilities for electronic waste exist. Check with your local authorities for recycling advice

## Room thermostats

		Earth	Neutral	Live	Common	Demand	Satisfied
Make	Model	ш					S
Drayton	RTS 1 & 2		N		L	3	
Drayton	RTS 4, 5, 9 & 10		N	L	1	3	2
Drayton	Digistat 1				1	3	2
ACL Lifestyle	PT271/371		N	L	1	3	2
ACL Lifestyle	TS 142	Е	4		1	2	
ACL Lifestyle	TA 350	5			1	3	2
Drayton	Digistat (old version)		4		1	2	3
Drayton	RT & RTE		4		1	2	3
Danfoss Randall	TP1	Е	N		L	1	2
Danfoss Randall	RT1. TP2, 3, 4 & 5				1	3	2
Danfoss Randall	RD3, RD3A		4		1	2	
Danfoss Randall	RTC, RTM, RSR	Е	N		3	1	2
Danfoss Randall	R504		N		3	1	2
Honeywell	6060, 6061, 6063		2		1	3	4
Honeywell	CT200				Α	В	С
Horstman	HRT 1	Е	4		1	2	
Landis & Gyr	RAD 1	Е			1	2	3
Potterton	PRT 1		N		L	Н	
Potterton	PRT 2 & 100 ST		N		TL	Н	
Potterton	PRT 100 DT		N		TL	Н	С
Sunvic	TLX 2259	Е	N		L	1	2
Sunvic	TLX 2356	Е			3	1	2
Sopac	TA 350	Е			1	3	2
Sopac	TA 351	Е	4		1	3	2
Switchmaster	SRT 2	5			1	3	2
Tower	SS	Е	4		1	2	

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