

Drayton

by Schneider Electric

Digistat+  
& Digistat+RF

Room Thermostat

Models:  
30002 / RF601

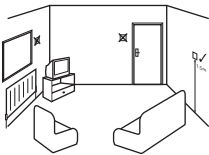
CE

Installation Guide

Technical Data		DIGISTAT+, DIGISTAT+RF ROOM UNIT
Power Supply:	2 x AA Size, 1.5V alkaline batteries	
Switch Type & Rating: Relay version:	SPDT 2(1)A 12-240V ac(dc) Volt free	
Radio frequency: RF version:	433 MHz	
Radio Signal Range: (RF Version)	30m typically. The range may be affected by the composition / density and number of walls between the Digistat RF and SCR.	
Temperature Range: Control Accuracy:	5 to 30°C + 0.5K @ 20°C	
Ambient Temperature:	Operating 0°C to 50°C / Storage -20°C to 55°C	
Mounting:	Suitable for surface or conduit box mounting	
Wiring: Relay:	Designed for fixed wiring only, to comply with current IEE regulations.	
	RF:	No wiring required
Pollution Degree:	2	
Energy Class: (ErP Rating)	IV=2% (According to EU: 811/2013, 812/2013, 813/2013 & 814/2014)	
Software Class:	A	
SINGLE CHANNEL RECEIVER (SCR)		
Power Supply:	230V ac 50Hz	
Switch Type & Rating:	SPDT (voltage free) 2(1)A 230V ac or 23V ac (dc)	
Wiring:	Designed for fixed wiring only, to comply with current IEE regulations.	
Reception Frequency:	433 MHz	
Mounting:	Industry Standard Wallplate	
Pollution Degree:	2	
Software Class:	A	
Rated Impulse Voltage:	2.5Kv	
Ball Pressure Test:	75°C	
Relevant EC Directives:	2006/95/EC low Voltage Directive 2004/108/EC Electromagnetic Compatibility Directive 1999/5/EC R&TTE Directive 2011/65/EU RoHS Directive 2006/66/EU Battery Directive	
Applied Standards:	EN60730-1; EN60730-2-9 EN 300 220-2; EN 301 489-3	

Location

Room Thermostat



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.

Signal Strength

Before fixing the *Digistat+RF* to the wall it is recommended to first check the signal strength from that location.

To do this, remove the batteries, press and hold the 'set' button whilst refitting the batteries, keep the 'set' button held and after a few seconds the display will show 'rF' which indicates that the *Digistat+RF* is continuously sending an OFF signal to the SCR (receiver). Leave the *Digistat+RF* in position and return to view the SCR. If the red LED is continuously flashing, this indicates a good signal. If the red LED is not flashing, this indicates a poor signal and you need to reposition the *Digistat+RF* until the red LED is flashing.

When the signal strength has been confirmed remove the batteries to cancel the test and follow the installation instructions.

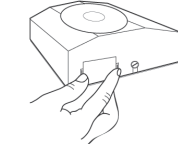
**Before Installation**

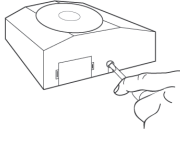
If you do not have the knowledge to install the thermostat safely then you must arrange for a competent electrician to install it for you. Wiring must conform to the current IEE regulations.

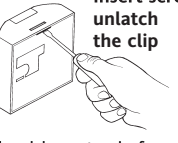
Prior to commencing the installation you must ensure the mains supply is switched off.

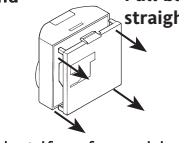
Remove battery compartment

Loosen screw





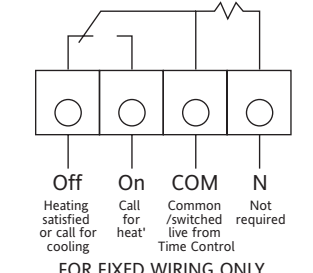




Standard cable entry is from the rear, but if surface wiring, from the top or bottom, is to be used, or extra space for cabling is required, use the optional Pattress box (sold separately).

WIRING

Room Thermostat (not RF models)



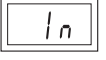
When changing an existing product and there is a neutral wire present, use the neutral (N) terminal on the product.

INSTALLER OPTIONS

The following installer options can be adjusted,

1. Application Type

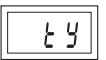
2. System Capability



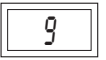
- To enter the 'Installer' menu, press and hold the 'Set' button for more than 10 seconds – the display will show 'In' (Installer menu) as shown,

Application Type

- Rotate the dial clockwise until 'ty' (Application Type) is shown,



- Then press the 'Set' button, the current setting is shown,



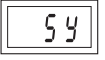
- g = Gas Boiler
- o = Oil Boiler

- Rotate the dial until the required Application Type is shown, then press 'Set' to confirm.

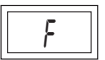
System Capability

Adjust this setting to suit the heating system capability.

- Rotate the dial until 'Sy' (System Capability) is shown'



- Then press the 'Set' button, the current setting is shown,



- F = Fast – the house usually reaches setpoint in <1hour
- S = Slow– the house usually reaches setpoint in >1hour

- Rotate the dial until the required System Capability is shown, then press 'Set' to confirm.

To return to normal operation, either press the 'Set' button for more than 5 seconds or wait for 1 minute and it will return automatically

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User Guide

TACMA

THE ASSOCIATION OF CONTROLS MANUFACTURERS

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Quality approved by Plain English Campaign

What is a room thermostat?

... An explanation for householders

A room thermostat simply switches the heating system on and off as necessary. It works by sensing the air temperature, switching on the heating when the air temperature falls below the thermostat setting, and switching it off once this set temperature has been reached.

Turning a room thermostat to a higher setting will not make the room heat up any faster. How quickly the room heats up depends on the design of the heating system, for example, the size of boiler and radiators.

Neither does the setting affect how quickly the room cools down. Turning a room thermostat to a lower setting will result in the room being controlled at a lower temperature, and saves energy.

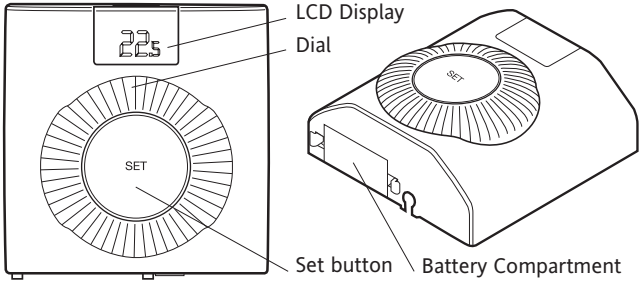
The heating system will not work if a time switch or programmer has switched it off.

The way to set and use your room thermostat is to find the lowest temperature setting that you are comfortable with, and then leave it alone to do its job. The best way to do this is to set the room thermostat to a low temperature – say 18°C – and then turn it up by one degree each day until you are comfortable with the temperature. You won't have to adjust the thermostat further. Any adjustment above this setting will waste energy and cost you more money.

If your heating system is a boiler with radiators, there will usually be only one room thermostat to control the whole house. But you can have different temperatures in individual rooms by installing thermostatic radiator valves (TRVs) on individual radiators. If you don't have TRVs, you should choose a temperature that is reasonable for the whole house. If you do have TRVs, you can choose a slightly higher setting to make sure that even the coldest room is comfortable, then prevent any overheating in other rooms by adjusting the TRVs.

Room thermostats need a free flow of air to sense the temperature, so they must not be covered by curtains or blocked by furniture. Nearby electric fires, televisions, wall or table lamps may prevent the thermostat from working properly.

Your new thermostat with digital display.



Thermostat Display – Features & Characters

An RF Model is shown by an antenna symbol on the display. (No symbol denotes a wired model).

A demand for heat is shown by a flame symbol on the display, i.e. the thermostat is calling for heat to bring the room up to or maintain it at the desired temperature.

During normal operation the display shows the actual room temperature.

When the desired temperature is being adjusted the word 'SET' is shown on the display.

Low battery warning is shown by a flashing battery symbol on the display.

**FEATURES**

**This product has the following user adjustable settings**

- Required room temperature (temperature setpoint)
- Preset temperature setting - Advanced feature
- Minimum & Maximum temperature settings - Advanced feature

Simple Setting or Operating

To set the required room temperature

- The display normally shows the current room temperature to within 0.5°C
- To adjust the required temperature, turn the dial clockwise to increase or anti-clockwise to decrease, (1 click = 1°C), the LCD will display the temperature setpoint as it is being adjusted and 'SET' will be displayed. After a few seconds the display will return to normal operation and will display the actual room temperature.

While adjusting the temperature during normal operation, when you reach the maximum or minimum possible setting the display will flash to indicate you cannot adjust the product further.

ADVANCED FEATURES

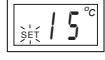
Adjusting the Setpoint using the Preset Temperature Mode

Change the temperature at the press of a button, for example, if you are going out to the shops for an hour you can reduce the temperature to save energy and then when you press the button again on your return the setpoint will return to the previous level.

- To adjust the setpoint to the preset (or Setback) temperature, press the 'Set' button during normal operation and the product will go into Preset mode.


NB. This feature can be used to quickly adjust the temperature setpoint to a setback temperature for economy operation if for example, 'Preset Temperature = 15°C'. Or alternatively to a comfort setpoint if 'Preset Temperature = 21°C'.

- Once the setpoint has been changed to the preset (or setback) temperature by pressing 'Set' the display will show the 'Preset Temperature' and 'SET' will be flashing in the display as shown,



'SET' will flash for approximately 5 seconds and during this time the 'Preset Temperature' can be altered by rotating the dial.

- The product will remain in the Preset mode. Once 5 seconds have elapsed (since the last dial adjustment) the word 'SET' will stop flashing on the display as shown,



The product is still in the Preset mode.

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