

Drayton

Intelligent Programmable Thermostats



The Digistat 3i and RF3i feature unique self learning optimum start software that can help achieve savings in excess of 10% and reduce CO₂ emissions, by delaying the start time on milder days, without affecting comfort levels.

Digistat *intelligent* prog

Digistat 3i

Battery powered 7 day programmable thermostat with self adaptive optimum start



Benefits of optimum start

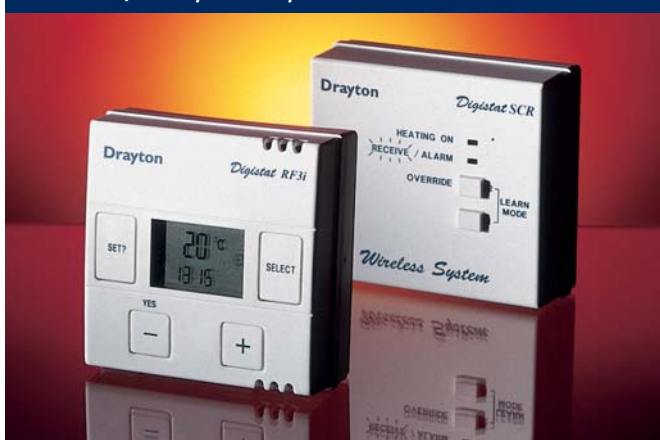
- can save in excess of 10% of heating fuel
- SAP and NHER rated
- unique self learning software that matches delay times to house and heating system characteristics
- helps reduce harmful CO₂ emissions
- adapts start up time to suit heating and building conditions
- no extra programming required

Common features

- four time/temperature settings
- displays actual time and temperature
- selectable 16°C low limit
- suitable for conventional or Combi systems
- temporary temperature override
- heating on indicator
- replaces standard room thermostats

Digistat RF3i

Wireless 7 day programmable thermostat with self-adaptive optimum start



Additional benefits of RF3i wireless system

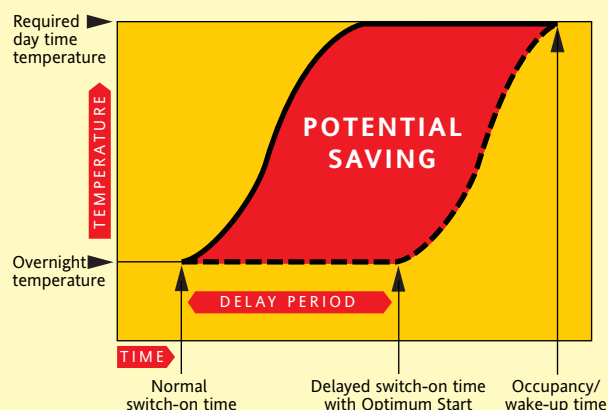
- no wiring between Digistat RF3i and SCR receiver
- minimal disturbance to decoration
- ideal for providing additional zone control
- proven radio technology
- easy to use
- no unsightly wiring
- flexibility of siting

Principle of Optimum Start

The majority of people set their heating to come on one hour before they get up. This is usually long enough to ensure that the rooms are up to temperature, even in the coldest conditions.

During milder weather a full one hour preheat is probably not required. So in some cases, the boiler could be burning fuel *unnecessarily* for up to 1 hour.

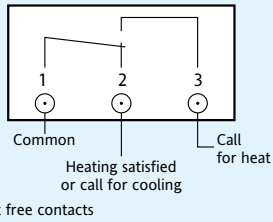
The optimum start feature saves this fuel wastage by measuring the room temperature when the heating is due to switch on. The unit then decides whether to switch on straight away, or delay the start for up to 1 hour. By using optimum start, savings in excess of 10% can be achieved without compromising comfort.



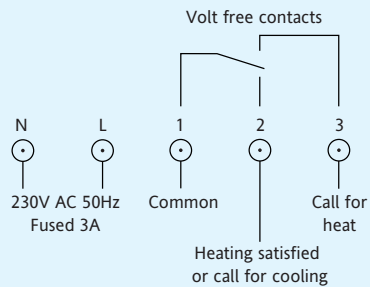
If a heating system is on for 8 hours per day, a 1 hour saving = 12.5%

Digistat 3i & RF3i wireless system

Wiring connections



SCR Receiver wiring



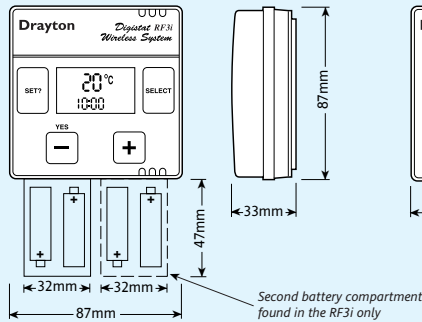
Standard programmes

Digistat 3i & RF3i 7 day programmable thermostat

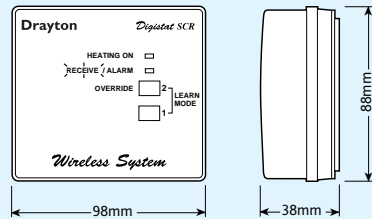
Temperature period	Mon-Fri	Sat-Sun	Temp
1 Start of early morning	6.30am	7.00am	20°C
2 Start of day time	8.30am	9.00am	16°C
3 Start of evening	4.30pm	4.00pm	21°C
4 Start of night time	10.30pm	11.00pm	7°C

Dimensions

Digistat 3i and RF3i Transmitter



Digistat SCR Receiver (used with RF3i only)



Technical data

Digistat	3i	RF3i
Power supply	Two type AA 1.5v alkaline cells (supplied)	Four type AA 1.5v alkaline cells (supplied)
Sensing element	Electronic	Electronic
Radio signal range	–	30M Typically Operating frequency 433MHz
Security encoding	–	4096 different signal recognition codes
Ambient temperature	Operating: 0 to 45°C Storage: –20 to 50°C	Operating: 0 to 45°C Storage: –20 to 50°C
Temperature range	5 to 30°C in 1°C steps 16 to 30°C selectable	5 to 30°C in 1°C steps 16 to 30°C selectable
Differential	< 0.6°C at 4°C per hr.	< 0.6°C at 4°C per hr.
Switch rating	2 (1) 230v AC	–
Switch type	SPDT (voltage free) relay	–
Switch cycle rate	> 8 mins, typically	> 8 mins, typically
Battery life	2 years typical	2 years typical
Wiring	Designed for fixed wiring only, to comply with current IEE regulations	No wiring required
Maintenance	No user maintenance should be attempted	No user maintenance should be attempted
Conforms to	–	DTI MPT1340 (license exempt)

Digistat SCR Receiver

Power supply	230v AC 50 Hz
Switch type	SPDT (volt free) relay
Switch rating	2(1)A 230v AC or 24v AC/DC
Wiring	Designed for fixed wiring only, to comply with current IEE regulations



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