

## Grässlin (UK)

Tel: +44 (0)1732 359888

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Note: The Famoso 651 has been discontinued \*\*

# GRÄSSLIN

A GE Power Controls Company

### Famoso 601 & 651 RF 24 hour & 7 day RF mechanical timer / thermostat

The new Famoso 601 RF is a sophisticated radio frequency control device, which communicates with a remote wall mounted receiver.

The Famoso 601 & 651 RF are battery powered, and intended to be fitted wherever a conventional room thermostat would normally be sited. The controller uses 868MHz radio frequency signals to communicate with the receiver, thereby controlling the boiler according to pre-set or customer's own time & temperature settings. The 868MHz band is newly licensed for low-power domestic control systems, and is very secure against interference or accidental operation. Adjacent installations will not be in conflict, because each commissioned control set initiates a unique address (in a similar fashion to computer IP addressing for network devices)



Transmitter



Receiver

#### Features:

##### Transmitter

- Battery powered transmitter – no wiring necessary
- Familiar mechanical clock with captive tappets to set comfort and economy temperature periods.
- Controls comfort and economy temperature levels – two 'dial-type' thermostats variable between 5 – 30°C.
- 24 hour programming, 15 minute minimum programming period (601).
- 24 hour 7 day programming, 2 hour minimum programming period (651).
- Range in free space <50 metres. Range in typical dwelling 20 -30 metres.
- Secure 868MHz transmission frequency – immune from interference.

##### Receiver

- Wall mounted
- 868MHz Band
- Volt free output

## Specification

### **Transmitter**

Wall-mounted digital timer / thermostat 87 x 155 x 35mm  
24 hour control of two customer-set temperature levels (601)  
24 hour 7 day control of two customer-set temperature levels (651)  
Day temperature range: 5.0 – 30.0<sup>0</sup>C  
Night, or Set-back temperature range: 5.0 – 30.0 <sup>0</sup>C  
Battery powered: 2 x LR6 alkaline  
Battery life: 18 months – 2 years (dependent on use)  
Programmable: Every fifteen minutes (Famoso 601)  
Programmable: Every two hours (Famoso 651)  
Control technique: two-point temperature regulation.  
Control differential: +/- 0.25<sup>0</sup>C  
Transmission frequency: 868 MHz  
Range: 20 – 30m (dependent on building); 50m in free space  
Housing protection: IP20

### **Transmitter modes:**

Auto  
Fixed set-back temperature  
Fixed day-time temperature

### **‘Display’:**

At-a-glance view of today’s programme, and both comfort and economy temperature settings.

### **Receiver**

Wallmounted  
Volt-free change-over contact  
Current rating: 5 (1) A  
Secure transmitter coding (once commissioned) with non-volatile memory  
Receiver type: Class II (ETSI EN300 220.1)  
Housing protection: IP30

### **Receiver modes:**

On - led indicator permanently on – flash off to confirm RF signal reception  
Off - led indicator permanently off – flash on to confirm RF signal reception  
Emergency – after no signal reception for one hour, led flashing on/off; output ON for 3 minutes / OFF for 7 minutes.

### **Communications:**

868 MHz  
9,000,000 code combinations  
Random 1 – 3 minute transmission cycle  
1% duty cycle  
Manchester coding – see link

<http://www.erg.abdn.ac.uk/users/gorry/course/phy-pages/man.html>