

Grässlin (UK)

Tel: +44 (0)1732 359888

GRÄSSLIN

Famoso 601 RF 24 hour RF mechanical timer / thermostat

The Famoso 601 RF is a battery powered programmable room thermostat, and is intended to be fitted wherever a conventional room thermostat would normally be sited, but the transmitter, being battery powered, requires no wiring. The controller uses 868MHz radio frequency signals to communicate with the receiver, thereby controlling the boiler according to the customer's 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). The receiver is a wall-mounted device, with volt-free changeover contacts, and requires a 230v 50Hz mains supply. The receiver can either be fitted in place of, and connected to, existing room-thermostat wiring, or it can be installed immediately adjacent to the boiler if this is more suitable.



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.
- Range in free space <50 metres. Range in typical dwelling 20 -30 metres.
- Secure 868MHz transmission frequency – immune from interference.

Receiver

- Surface mount enclosure – rear cable entry
- L.E.D. status indicator / set-up button
- Volt-free change-over contacts

Specification

Transmitter

Wall-mounted mechanical timer / thermostat 87 x 155 x 35mm
24 hour control of two customer-set temperature levels
Day temperature range: 5.0 – 30.0⁰C
Night, or Set-back temperature range: 5.0 – 30.0 ⁰C
Battery powered: 2 x LR6 alkaline
Battery life: 18 months – 2 years (dependent on use)
Programmable: Every fifteen minutes
Control technique: two-point temperature regulation.
Control differential: +/- 0.5⁰C
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

Wall-mounted unit 85 x 112 x 35mm
Volt-free changeover 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
Low battery level – led indicator flashes once per second
Emergency – after no signal reception for one hour, led rapid flash; 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>