

## Feeling RF 7 Day RF digital timer / thermostat

The new Grässlin Feeling programmable thermostat is a sophisticated radio frequency control device, which communicates with a mains-powered wall-mounted receiver which switches the heat source in order to provide comfort and set-back heating control.

The Feeling RF transmitter is battery powered, and is 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 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 (like computer IP addressing for network devices)



Transmitter



Receiver

### Features:

#### Transmitter

- Battery powered transmitter – no wiring necessary
- Large display showing date, time, weekday, ambient temperature, set temperature, manual mode, and bar-chart of today's programming.
- Easy-sequence menu-style programming for all functions.
- Multiple temperature levels programmable at 30 minute intervals.
- Seven day programming.
- Choice of four pre-set programmes, or own programme setting.
- Individual day, pre-set day group, or own day group programming.
- Range in free space >50 metres. Range in typical dwelling 20 -30 metres.
- Secure 868MHz transmission frequency – immune from interference.
- Low battery indicator in display

#### Receiver

- Wall-mount receiver, for rear cable entry. Incorporates set-up button and led indicator.

## **Specification**

### **Transmitter**

Wall-mounted digital timer / thermostat 87 x 155 x 35mm

24 hour / 7 day control of multiple temperature levels

Temperature range: 5.0 – 30.0°C

Battery powered: 2 x LR6 alkaline

Battery life: 18 months – 2 years (dependent on use)

Programmable: Every half hour

Control technique: Pulse width modulation – proportional & integral method.

Control differential: +/- 0.25°C

Transmission frequency: 868 MHz

Range: 20 – 30m (dependent on building); 50m in free space

Housing protection: IP20

### **Transmitter modes:**

Auto

Self-resetting manual temperature adjustment using + or – buttons.

Cleaning mode (2 hour set-back period)

Party mode (keeps day-time temperature running until auto return to set-back)

Holiday mode (customer-set temperature to run for <99 days, then auto-return to normal programme)

Off mode (maintains 5°C frost protection)

### **Display:**

Date

Weekday

Time

Current room temperature

Set temperature

Mode

Graphic of current 24 hour programme sequence

### **Receiver**

230V 50Hz mains powered.

Current rating: 5 (1) A volt-free change-over contact

Secure transmitter coding (pre-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

16,000,000 code combinations

Random 1 – 3 minute transmission cycle

1% duty cycle