

11 GREE heat pumps

11.1 Dual pulse train

Remotes: YAA1FB, YB1F2 (sends four pulse-trains when one or both timers are active)

IR pulse type: IRT_23 and IRT_24, see 5.21.

| Byte | Explanation |
|-----------|--|
| LI | Lead in 1st pulse train |
| 0-4 . 3 | 1 st pulse train see 11.1.1 |
| LO | Lead out 1st pulse train |
| LI | Lead in 2nd pulse train |
| 0-3 (5-8) | 2 nd pulse train see 11.1.2 |
| LO | Lead out 2nd pulse train |

11.1.1 1st pulse train 4.3 bytes

IR pulse type: IRT_23, see 5.21.1.

| Byte | Bits | Explanation |
|-------|------|---|
| 0 (0) | 0..2 | MODE: AUTO - 0x0, COOL - 0x1, DRY - 0x2, FAN - 0x3, HEAT - 0x4 Auto has no temp display or control and sets temperature to 25°C - 0x9. DRY disables fan control and sets fan to 1. Fan allows temp control ! |
| | 3 | Power: ON - 0x1, OFF - 0x0 |
| | 4..5 | FAN: Auto - 0x0, 1 - 0x1, 2 - 0x2, 3 - 0x3, 4 - 0x3, 5 - 0x3 DRY disables fan control and sets fan to 1. |
| | 6 | SWING: ON - 0x1, OFF - 0x0 (see bit 0..3 byte 0 (5)) |
| | 7 | 'SLEEP': ON - 0x1, OFF - 0x0 |
| 1 (1) | 0..3 | Temperature: 16°C - 30°C - 0x0 - 0xE. When in 'Auto' mode: no control and set to 25°C - 0x9 |
| | 4..7 | No timer: 0x0, Use this for the Pebble Air 'TIMER-OFF', 'TIMER-OFF'+ 'TIMER-ON': 0xC 'TIMER-ON': 0x9, 0xA |
| 2 (2) | 0..3 | Timer related: keep 0x0 |
| | 4 | 'TURBO': ON - 0x1, OFF - 0x0 |
| | 5 | 'LIGHT': ON - 0x1, OFF - 0x0. Is on by default. |
| | 6 | 'Health': ON - 0x1, OFF - 0x0 (Fir tree icon). Is on by default. |
| | 7 | 'X-FAN': ON - 0x1, OFF - 0x0 |
| 3 (3) | 0 | 'Scavenging': ON - 0x1, OFF - 0x0 (House with air in/out) |
| | 1..3 | Always 0x0 |
| | 4..7 | Always 0x5 |
| 4 (4) | 0..2 | Always 0x2 |
| | 5..7 | These bits not transmitted |

11.1.2 2nd pulse train 4 bytes

IR pulse type: IRT_24, see 5.21.2.

| Byte | Bits | Explanation |
|-------|------|--|
| 0 (5) | 0..3 | Vertical vane: Auto (bit 6 byte 0 (0) is 0x0): Auto: 0x0. Fix (bit 6 byte 0 (0) is 0x0): Ahead - Down: 0x2, 0x3, 0x4, 0x5, 0x6. Swing (bit 6 byte 0 (0) is 0x1): All: 0x1, Low ¹ / ₃ : 0x7, Center ¹ / ₃ : 0x9, High ¹ / ₃ : 0xB. |
| | 4..7 | Horizontal vane: Auto (bit 6 byte 0 (0) is 0x0): Auto: 0x0. Fix (bit 6 byte 0 (0) is 0x0): Left - Right: 0x2, 0x3, 0x4, 0x5, 0x6. Wide: 0xC. Swing (bit 6 byte 0 (0) is 0x1): All: 0x1, Spread: 0xD. |
| 1 (6) | 0..1 | 'TEMP' display at the unit: 0x0, 0x1, 0x2, 0x3 |
| | 2 | 'I FEEL': ON - 0x1, OFF - 0x0 |
| | 3 | Always 0x0 |
| | 4..7 | YAA1FB, FAA1FB1, YB1F2: Always 0x2 YAG1FB: Always 0x0 |
| 2 (7) | | Always 0x0 |
| 3 (8) | 0..3 | Always 0x0 |
| | 4..7 | Check: ((Byte [0 (0)] & 0x0F) + (Byte [1 (1)] & 0x0F) + (Byte [2 (2)] & 0x0F) + (Byte [3 (3)] & 0x0F) + ((Byte [0 (5)] & 0xF0) >> 4) + ((Byte [1 (6)] & 0xF0) >> 4) + ((Byte [2 (7)] & 0xF0) >> 4) + 10) & 0xF |