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USER GUIDE

# GTX330 / GTX335 Transponder Panel

Operating instructions for the RHSimTech replica Garmin GTX330/335-style transponder — squawk entry, IDENT, VFR recall, and the full FUNC display page set.

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**RHSimTech Ltd**

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Hand-built avionics for X-Plane & MSFS

SIMTECH GTX330 / GTX335

A replica Garmin GTX330/335-style transponder for X-Plane / MSFS. This guide covers day-to-day operation once the panel is wired up and connected to SimLink.

## SECTION 01

# Display Layout

The display is split into two halves:

- **Left side** — the squawk code display, with a mode label (**ON**, **STBY**, or **ALT**), an IDENT indicator, a reply indicator, and the 4-digit transponder code itself
- **Right side** — a single information page, selected with the FUNC button (see Section 5)

## SECTION 02

# Basic Controls

| CONTROL    | FUNCTION                                                                          |
|------------|-----------------------------------------------------------------------------------|
| ON         | Sets the transponder to ON mode (replies to interrogation, no altitude reporting) |
| STBY       | Standby — transponder is powered but not replying                                 |
| ALT        | Altitude mode — replies with altitude reporting                                   |
| IDENT      | Sends an IDENT signal for a few seconds, shown on-screen                          |
| VFR        | Recalls the standard VFR squawk code                                              |
| 0–7 keypad | Enters a new 4-digit squawk code                                                  |
| CLR        | Steps back one digit during entry, or corrects the code shortly after entry       |
| CRSR       | Cancels code entry and restores the previous code                                 |
| FUNC       | Cycles through the information pages on the right side of the display             |
| OFF (hold) | Hold for 2 seconds to power the unit off                                          |

## SECTION 03

# Entering a Squawk Code

1. Press any number key (**0–7**) to begin — this starts a new 4-digit entry.
2. Continue pressing digits to fill in the remaining three positions.
3. Once the 4th digit is entered, the code is sent automatically — no separate “enter” press is needed.

**Made a mistake?** Press **CLR** while entering to step back one digit at a time. You also have a few seconds after finishing to press **CLR** again and correct the last digit, without having to re-enter the whole code.

To cancel entry at any point and keep the previous code, press **CRSR**.

## SECTION 04

# IDENT & VFR

Press **IDENT** to identify yourself to air traffic control — the display shows an IDENT indicator for the duration of the signal.

Press **VFR** to instantly recall the standard VFR squawk code without manually entering it.

## SECTION 05

# FUNC — Information Pages

Repeated presses of **FUNC** cycle through eight information pages shown on the right side of the display:

### 1 – PRESSURE ALT

Current pressure altitude, with climb/descent trend arrows

### 2 – FLIGHT TIME

Time airborne for the current flight, running automatically from take-off

### 3 – COUNT UP

A manual stopwatch — start/stop and reset

### 4 – COUNT DOWN

A countdown timer you can set, with an alert when it expires

### 5 – FLIGHT ID

Read-only display of the current flight ID

### 6 – ALT MONITOR

Alerts if altitude drifts from a reference level you set

### 7 – DAY CONTRAST

Adjusts display brightness for daytime use

### 8 – NIGHT CONTRAST

Adjusts display brightness for nighttime use

## Count Up (Page 3)

- Press **ON** to start or pause the stopwatch
- Press **CLR** while stopped to reset it to zero

## Count Down (Page 4)

- Press **CRSR** while stopped to set a new time — enter it as **HH:MM:SS** using the number keys
- Press **ON** to start or pause the countdown
- Press **CLR** while stopped to reset to the last time you set
- When the timer reaches zero, the display flashes **EXPIRED** and begins counting up from that moment — press **ON** to clear it and restore your set time

## Altitude Monitor (Page 6)

- Press **ON** to capture your current altitude as the reference and begin monitoring
- If you drift more than around 200 ft from that reference, the display flashes **ABOVE** or **BELOW**
- The alert clears automatically once you're back within 100 ft of the reference
- Monitoring stops automatically if you drift more than around 1,200 ft from the reference
- Press **ON** again at any time to stop monitoring manually

## Day / Night Contrast (Pages 7 & 8)

- Press **ON** on either page to preview how the display looks in day or night mode
- Use the **8** and **9** keys to lower or raise brightness for whichever mode you're previewing
- Day and night brightness are stored separately, so each only affects its own page

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### SECTION 06

## Powering Off

Press and hold the **OFF** button for about two seconds. The display shows **HOLD TO POWER OFF** while you wait — release early and nothing happens.

If the simulator's avionics master is switched off, the panel will power down automatically, and power back up again once avionics power is restored.

## SECTION 07

# Startup Behaviour

When power is applied:

1. The unit briefly shows its version and build information.
2. It then runs a short self-test sequence before becoming fully active.
3. Once connected to SimLink, it begins receiving live data and reporting button presses back to the simulator.

**Tip:** if the display looks “stuck” or the code isn’t updating, check that SimLink is running and pointed at the correct COM port for this panel before assuming a hardware fault.

## SECTION 08

# Troubleshooting Quick Reference

| SYMPTOM                      | LIKELY CAUSE                                                               |
|------------------------------|----------------------------------------------------------------------------|
| Display blank                | Check power and display connection                                         |
| Code doesn't change with sim | SimLink not connected, or wrong COM port assigned                          |
| Keypad does nothing          | Confirm the panel has finished its startup sequence and is receiving power |
| Stuck on “HOLD TO POWER OFF” | Release the OFF button — this clears once released                         |

Covers the current SimTech GTX330 / GTX335 build.  
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