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Hex Codes for transponders and Electronic Conspicuity (EC) Devices – RAAus aircraft

The worldwide transponder system requires correct programming of an ICAO compliant 24-bit address into transponders or EC devices fitted to RAAus aircraft. The 24-bit address is unique and in Australia is issued as 24-bit or 6-digit HEX code in the 7C0000 to 7F0000 range.

The RAAus registration number for the aircraft must not be used as the Mode S address when programming the transponder or EC device even if the numbers are accepted by the device.

A registered Hex code must be obtained directly from CASA by emailing aircraftregistrar@casa.gov.au. The request must include the registration number, manufacturer, model and serial number of the aircraft and the name of the registration holder. The code will be provided in a return email.

Once you have this Hex code for your aircraft, or if you have already been issued a Hex code by CASA and have not provided this information to RAAus, please email tech@raaus.com.au with the relevant information to enable RAAus to add this to the aircraft file.

Additionally, Airservices Australia has confirmed the preferred detail and information to be programmed into the Flight ID field for the aircraft. This should be programmed as "R" then the last four digits of the RAAus registration e.g. R1234. This will assist Airservices to distinguish the return interrogation of the transponder or EC as a recreational aircraft and prevents errors in the ATS classification framework.

Note:

All transponders fitted to an RAAus registered aircraft must be maintained in accordance with Civil Aviation Order 100.5

Sincerely,
The Team at Recreational Aviation Australia