PILATUS

Pilatus Aircraft Ltd, Pilatusstrasse 1, 6371 Stans, Switzerland

SUBJECT: OPTION FOR ADS-B IN TRAFFIC (CDTI)

To all Customers, Operators and Service Centers:

Date: May 05/23

Effectivity: All PC-12/47E Series Aircraft

This Service Letter is issued to highlight the APEX APM options that are required to support the Cockpit Display of Traffic Information (CDTI).

ADS-B Out is a surveillance technology for tracking aircraft, where an aircraft reports its position, velocity and altitude. ADS-B In is an aircraft's ability to receive transmissions from other aircraft fitted with ADS-B Out and, in some cases, from ground stations. ADS-B In is optional, but greatly contributes to safety. The CDTI function provides the flight crew with surveillance information about other aircraft. The traffic information for CDTI is obtained from sources such as Automatic Dependent Surveillance-Broadcast (ADS-B In). Two CDTI options are available for the PC-12/47E:

- Internal CDTI (PC-12/47E MSN 1720, 2001 and Up)

  This option integrates ADS-B data from ADS-B Out equipped aircraft with the standard Traffic Collision Avoidance system (TCAS) information. Traffic information is displayed on the Integrated Navigation and on the Horizontal Situation Indicator. The option represents the integrated CDTI capability, it is called Internal CDTI and includes the following features:

  - Basic Airborne Situational Awareness (AIRB)
  - Visual Separation on Approach (VSA)
  - Surface Situational Awareness (SURF)
  - Enhanced Visual Acquisition (EVAcq)

  The option for Internal CDTI cab be enabled by Service Bulletin 45-019 APEX Option Files (MSN 1720, 2001 and Up with APEX Build 12.6.1 or higher).

- External CDTI (All PC-12/47E aircraft)

  ADS-B In can also allow aircraft to receive broadcasts from the ground network, such as information about traffic (TIS-B) and weather (FIS-B). The traffic data received from a ground station includes all aircraft in radar contact, not just from other transponder equipped aircraft. Broadcasts from ground stations are available only in the USA.

  This option allows customer furnished equipment onboard the PC-12/47E to receive broadcasts from the ground network for aircraft that do not have an integrated CDTI capability. The option is called External CDTI and it enables both the 1090 MHz ES and the 978 MHz UAT datalinks. It is software only and does not include any customer furnished equipment to provide the CDTI capability.

  The option for External CDTI can be enabled by Service Bulletin:

  - SB 45-004 APEX Option Files (MSN 545, 1001 thru 1719, 1721 thru 1942 with APEX Build 11 or higher)
  - SB 45-019 APEX Option Files (MSN 1720, 2001 and Up with APEX Build 12.6.1 or higher).

Operators that require additional information should contact their authorized Pilatus Service Center, or Pilatus Customer Support on www.pilatus-aircraft.com → contact us