

## Air Data and Attitude Heading Reference System (ADAHRS)

TSO'd by the FAA in July, 2007, Chelton's new, lightweight, compact, digital Air Data and solid-state Attitude Heading Reference System incorporates a Magnetic Sensing Unit (MSU) and separate Outside Air Temperature (OAT) probe. This highly accurate system employs the latest Micro-Electro-Mechanical System (MEMS) technology to provide extremely precise digital output and referencing of aircraft position rate, vector, and acceleration data.

**RELIABLE:** DO-178B, Level A Software

**LIGHTWEIGHT:** 3-component product suite is less than 1.5 lbs

**HELICOPTER-RUGGED:** Meets RTCA/DO-160E environmental standards

**COMPACT:** 2" x 2.5" x 3.9"



## Chelton GPS-WAAS Receiver

A Global Positioning System (GPS) Receiver combined with the unparalleled accuracy and integrity monitoring of Wide Area Augmentation System (WAAS), this Chelton component meets requirements for primary navigation receiver for enroute and approach guidance. The receiver utilizes the signals coming from GPS Satellite Constellation and Satellite-Based Augmentation System (SBAS), such as WAAS or EGNOS.

The primary function of Chelton's GPS-WAAS Receiver is to compute the Position, Velocity of an aircraft and the Precise Time (PVT). It also computes the integrity of the PVT from the SBAS signal, if available. The GPS detects and excludes failed satellites (FD/FDE) using Receiver Autonomous Integrity Monitoring (RAIM) algorithm, whenever there are enough satellites, regardless of SBAS availability.

CERTIFICATION: TSO-C145b Class Beta: LPV CONFORMITY: DO-229D; DO-254, Level-B; DO-178B, Level-B; DO-160E; ARINC 743A-4



## Chelton Remote Bugs Panel

The Remote Bugs Panel puts control of EFIS functions within easy reach:

- Dedicated controls for frequently-used functions, including autopilot
- Controls for selecting and setting display parameters
- High-speed serial communication
- NVG Mode option
- Required for EFIS installations in IFR helicopters and Part-25 airplanes



- "Heading" knob dedicated to EFIS heading bug function
- "Altitude" knob dedicated to EFIS altitude bug function
- Multi-function "Set" knob with current function indicated by main display
  - ◆ Two dedicated "Arrow" push buttons used as a function selector for the "Set" rotary knob
  - ◆ 8-character main display, 4-character option display
- "LNAV"-dedicated push button switches the EFIS autopilot roll steering output from heading sub-mode to LNAV sub-mode
- "VNAV"-dedicated push button switches the EFIS autopilot pitch steering and commanded VSI output from target altitude sub-mode to VNAV sub-mode

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Phone 817-215-7600 | Fax 940-325-3904 | [www.cheltonflightsystems.com](http://www.cheltonflightsystems.com)  
 One S-TEC Way | Municipal Airport | Mineral Wells, Texas 760671