

EFIS-D6

Electronic Flight Information System



Pilot's User Guide

P/N 101208-000, Revision A
For use with firmware version 1.0

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Dynon Avionics, Inc.

*This product is not approved for
installation in type certificated aircraft*

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1. INTRODUCTION

Thank you for purchasing the Dynon Avionics EFIS-D6. This section provides some important cautionary information and general usage instructions for this manual.

Before You Fly

We strongly recommend that you read this entire guide before attempting to use the EFIS-D6 in an actual flying situation. Additionally, we encourage you to spend time on the ground familiarizing yourself with the operation of the product. While first learning to use the instrument in the air, we recommend you have a backup pilot with you in the aircraft. Finally, we encourage you to keep this manual in the aircraft with you at all times. This document is designed to give you quick access to information that might be needed in flight. **CAUTION:** in a flying situation, it is the pilot's responsibility to use the product and the guide prudently.

Warning

Dynon Avionics' products incorporate a variety of precise, calibrated electronics. Except for replacing the optional internal backup battery in EFIS-based products per the installation guide, our products do not contain any field/user-serviceable parts. Units that have been found to have been taken apart may not be eligible for repair under warranty. Additionally, once a Dynon Avionics unit is opened up, it will require calibration and verification at our Woodinville, WA offices before it can be considered airworthy.

About this Guide

This guide serves two purposes. The first is to help you configure and get acquainted with the EFIS-D6's many functions. The second is to give you quick access to vital information. For detailed technical and installation information, please refer to the EFIS-D6 Installation Guide.



In the electronic (.PDF) version of this manual, page and section references in the Table of Contents and elsewhere act as hyperlinks taking you to the relevant location in the manual. The latest version of this manual may be downloaded from our website at docs.dynonavionics.com.

This guide discusses the most common operation scenarios. If you have an operational issue that is *not* discussed in this guide, you can find additional operational information on Dynon's Internet sites:

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Any text following this icon refers to a setting or situation which merits particularly close attention.

2. PRODUCT OVERVIEW

This section provides a general overview of the various parts of the EFIS-D6 as well as a theory of operation. The information in this section serves as a reference only and helps familiarize you with the inner workings of the unit. It should not be used for diagnostic or reparative work.

EFIS-D6 Hardware

The EFIS-D6 uses solid-state sensors to provide accurate and reliable information about your flying environment in an easy-to-use interface.

POWER

The EFIS-D6 requires between 10 and 30 volts DC for operation. It is acceptable to have the EFIS-D6 turned on during engine start.

The EFIS-D6 can be ordered with an optional internal battery which allows the instrument to continue to operate in the event of an external power failure. This lithium-ion battery is rechargeable and is managed by the EFIS-D6. Under normal conditions, the internal battery should have a voltage between 13 and 16.8 volts. When the battery's voltage drops below 13 volts, the EFIS-D6 displays a low battery warning. When new, a fully charged internal battery is rated for a minimum of 2 hours of normal operation with the EFIS-D6. If the EFIS-D6 has switched to its internal emergency battery due to a power loss in your aircraft, it is advised that you land as soon as possible.

SENSORS AND INPUTS

Attitude information is obtained from 3 solid-state gyrometers, 3 solid-state accelerometers, and the airspeed pressure sensor. Heading information is obtained from 3 solid-state magnetometers housed in the EDC-D10A. Airspeed, altitude and angle of attack are obtained from three separate pressure transducers.



OUTPUTS

The EFIS-D6 has an output to drive an external customer-supplied audible device for AOA (if installed) and altitude alerts.

A serial output is also provided for serial altitude encoder data. An optional Serial-to-Gray Code Converter is available for connection to Mode C Gray Code transponders.

DISPLAY

The display is a 4-inch, 320 by 240 pixel, 450-nit LCD screen.

BUTTONS AND KNOBS

User interaction takes place via the six buttons along the bottom of the front panel of the unit.

ADAHRS Operation

The primary flight instruments on your EFIS display are generated using a group of calibrated sensors. All of them are solid state – that is, there are no moving parts. These sensors include accelerometers, which measure forces in all three directions; rotational rate sensors, which sense rotation about all three axes; pressure transducers for measuring air data; and magnetometers on all three axes for measuring magnetic heading. These sensors form the core of Dynon's Air Data Attitude and Heading Reference System (ADAHRS).

The table below describes which inputs and sensors are used within the EFIS to generate the different displayed instruments. It is not meant to enable in-flight troubleshooting, but is provided to convey how much of an integrated system your EFIS is.



	GPS	Pitot	Static	AOA	Magnetometers	Rate Sensors	Accelerometers
Ball							X
Altitude			X				
Airspeed		X	X				
AOA		X	X	X			
Turn Rate	X*	X	X			X	X
Heading	X*	X	X		X	X	X
Attitude	X*	X	X			X	X

ATTITUDE CALCULATION

The EFIS-D6 artificial horizon display (attitude) is generated via a complex algorithm using a multitude of sensors. Your EFIS attitude is not reliant on any single external system. It can provide an accurate attitude - even in the event of airspeed loss (due to icing or other blockage) - via a redundant GPS aiding source. In normal operation the instrument uses airspeed to provide superior attitude accuracy. If a problem develops with your airspeed reading, a properly connected and configured GPS source acts as a substitute. When in this mode the instrument continues to provide accurate attitude.



*If a GPS is present upon the loss of airspeed, the EFIS-D6 uses the GPS ground speed in its attitude calculation. When in this mode, a magenta GPS ASSIST message is displayed over the horizon and the ground speed is displayed below the IAS indicator (as shown at right). If the connectivity with the GPS fails while in GPS assist mode, the attitude continues to be displayed, using the last known GPS ground speed as a reference. This mode is flagged on the horizon with a yellow CROSS CHECK ATTITUDE message. In the very rare case that this sequence of event occurs, the EFIS-D6's attitude accuracy is reduced; use other references in the aircraft to cross-check against the EFIS-D6's attitude.



3. PRODUCT OPERATION

After reading this section, you will be familiar with the basics of how to use your EFIS-D6. For details regarding specific procedures (e.g., adjusting display brightness, changing the altimeter setting, etc.) please refer to the Operation section.

Front Panel Layout

All normal operation of the EFIS-D6 happens via the front panel. The front panel contains buttons and a display.

- Buttons – There are six buttons on the front panel of the EFIS-D6. Throughout this guide, these buttons are referred to as one through six, with button one being the leftmost and button six being the rightmost. EFIS-D6 buttons are used to turn the instrument on and off, scroll through menus, and adjust instrument parameters.
- Display – The display shows EFIS information and menus.



User interaction takes place via the EFIS-D6 main display and the six buttons beneath.



Display

The EFIS-D6 display is the most obvious and commonly used output of the device.

Menus

All interaction with the EFIS-D6 is accomplished through the use of its menu system. The menu system is accessed and navigated via the six buttons located on the front of the unit. With no menu displayed, press any button to display the main menu. With a menu displayed, pressing any one of these buttons performs the action – or enters the menu – described by the label above it.

FUNCTIONALITY

A menu consists of two rows of gray boxes containing text. The upper row contains one tab that denotes the currently displayed menu. The lower row contains six labels that denote the function of the button below it. Many of the onscreen elements move up to avoid the menu. This prevents the menu from obscuring useful data while it is up. Upon exiting the menu, the screen returns to its normal appearance.

Pressing a button either displays another menu or adjusts a parameter. If there is no text above a button, then that button does not have a function in the context of that menu. Occasionally, a button label spans two or more buttons. In this case, any button below the label invokes the command.

If a menu contains more options than there are buttons, the MORE label is displayed over button five. Pressing this button shows you the next set of options in the current menu.

In any menu, press the BACK button to return to the previous menu and save any changes. In all top-level menus, button six is the EXIT button. Pressing EXIT removes the menu system and moves many of the onscreen elements down to their original positions.



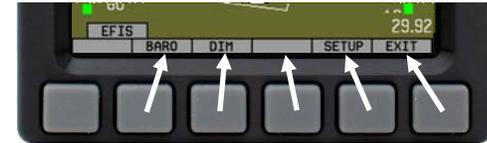
FLOW

Each page has its own main menu, which may contain options for navigating to other menus or choosing and adjusting parameters. For example, the EFIS SETUP menu contains button labels for PITCH, UNITS, CLUTTR, MORE, and BACK. Pressing MORE reveals the rest of the SETUP menu. That menu contains options for VRSION, IASCLR, ALTENC, BARO, MORE, and BACK. Pressing MORE on the last menu of the series simply returns you to the first part of the EFIS menu.

To exit the menu system, press the BACK button as many times as is needed to reach an EXIT button. This varies based upon how deep you are into the menu system.

DESCRIPTIONS IN THIS GUIDE

Throughout this guide, the “>” character is used to indicate entering a deeper level of the menu system. For example, “SETUP > BARO” indicates entering the SETUP menu, pressing MORE, and then pressing BARO. Note that the MORE button is not included in the sequence, since pressing MORE reveals more options in the same level of the menu system.



Each menu consists of labels above each button denoting their function.



Stabilized heading tape and digital readout

Located at the top of the EFIS page, the heading indicator functions much like a standard slaved directional gyro.



North, East, South, and West directions are labeled on the tape, “N,” “E,” “S,” and “W,” respectively. The digital readout displays your current heading, while the surrounding tape scrolls beneath its arrow.

Like a conventional gyro-stabilized magnetic compass, magnetic heading reacts immediately to turn rate so that heading changes are reflected immediately. It then uses magnetometer data over the long term to ensure that it remains correct. Additionally, heading is corrected for attitude so that it is accurate as you pitch and roll.

Turn rate indicator

Centered just below the heading digital readout, the turn rate indicator displays the aircraft’s current rate of turn with respect to the ground. The magenta bar grows in the direction that the aircraft is currently turning, and is anchored at a white vertical anchor line. The brackets on either side of the bar’s anchor line represent the turn rate which results in a standard rate turn. Turn rate takes attitude into account. This means that even when you are highly banked, it still shows rate of turn in relation to the aircraft’s heading.



The turn rate indicator is scaled to indicate a 6-second heading trend. In the example above, the trend indicator is showing that the aircraft will be pointed at 40° in 6 seconds if the rate of turn does not change.



Altitude tape, digital readout, and VSI

The altitude tape scrolls beneath the altitude digital readout and arrow. The digital readout's digits scroll up and down, simulating an analog altimeter and giving a sense of the direction of movement. Thousands of feet are displayed using large numbers while hundreds of feet are displayed in smaller numbers. The EFIS-D6 accurately displays altitudes from -1200 to 30,000 ft (-365 to 9144 m).

The graphical Vertical Speed Indicator is located next to the altitude tape. The magenta bar grows in the direction of – and in proportion to – the rate of climb or descent. The numbers on the scale represent thousands of feet per minute. In the CLUTTR menu, the VSI scale can be set to display 1000 ft/min, 2000 ft/min, and 4000 ft/min. The 2000 ft/min scale is linear throughout the range, while the 1000 ft/min and 4000 ft/min are non-linear as shown on the scale. When set to display 2000 ft/min, the VSI bar is scaled to indicate a 6-second altitude trend based on its position with relation to the altitude bar. When set to display 4000 ft/min, the VSI bar is scaled to indicate a 6-second trend only up to 1000 ft/min. When set to display 1000 ft/min, the VSI bar is scaled to indicate a 12-second trend up to 500 ft/min.

During the first 30 seconds of operation, the altitude tape and digital readout are not displayed as the unit needs a small amount of time before altitude measurements are deemed accurate.



Angle of attack (AOA) indicator

The angle of attack indicator – available only with Dynon's AOA Pitot Probe – displays the aircraft's current AOA relative to the stall AOA. The AOA calibration process should result in the lowest angle of attack stall (usually the "clean" configuration) occurring between the yellow and red lines and the higher angle-of-attack stall (usually the "dirty" configuration) occurring at the top of the red. As your aircraft's angle of attack increases, the bars in the indicator disappear, leaving the empty outline. As your aircraft's AOA approaches stall, downward-pointing arrows are left. Depending on your installation and configuration, an audible alarm may also occur when





near or in the stall. This audio alarm is accompanied by a flashing red triangle at the top of the AOA display. To judge when a stall will occur, remember that the AOA indicator is showing actual AOA, and the stall AOA changes with configuration. Because of this, a stall could occur anywhere inside the yellow range, but will occur at the same point every time given a specific configuration. Refer to the EFIS-D6 Installation Guide for more information on calibrating the AOA indicator.

Airspeed tape, digital readout, and trend

The airspeed tape scrolls beneath the airspeed digital readout and arrow. The digital readout's digits scroll up and down, simulating an analog airspeed indicator and giving a sense of the increase or decrease in speed. The EFIS-D6 is factory-calibrated to be accurate for airspeeds between 15 and 325 knots (17 to 374 mph). As airspeed increases from 0 knots, the indicator becomes active at 20 knots. The indicator remains active until airspeed drops below 15 knots. The EFIS-D6 may display airspeeds above 325 knots, but it is not guaranteed to be accurate.

The airspeed tape utilizes 4 colors to give you a graphical representation of your speed with relation to your aircraft's limits. By default all of the color thresholds are set at 0, causing a grey tape to be displayed. You must set the values of the airspeed color thresholds via the SETUP menu. Refer to the EFIS-D6 Installation Guide for more information on setting the airspeed color thresholds.

The airspeed trend indicator is located to the left of the airspeed tape. The magenta bar grows in the direction of—and in proportion to—the rate of acceleration or deceleration. The trend indicator is scaled to indicate a 6-second airspeed trend. In the example at right, the trend indicator is showing that the aircraft will reach 119 knots in 6 seconds if acceleration does not change.





Slip/skid ball

The slip/skid ball works much like a standard mechanical gauge. It is a visual representation of lateral acceleration. If the ball is within the two vertical lines, then you are in coordinated flight.



Altimeter setting display

The current altimeter setting is displayed at the bottom right of the screen below the altitude tape. The value is shown in either inches of Mercury or millibars depending on your preference set in the BARO menu.



5. OPERATION

This section guides you through each of the EFIS main page menu selections and their sub-menus. To enter the EFIS menu system, press any button.

POWER – Power on/off

When the EFIS-D6 is turned off but still has a power source via Master switch power, Emergency backup power, or Internal battery, press Button 1 to turn the unit on. Likewise, once the unit is on and no menus are displayed, *push and hold* the leftmost button to turn it off. While power is still connected, the unit is never fully turned off. It simply enters an extremely low-power state (except when the backup battery is discharged; in that case the EFIS will charge the battery then return to the low-power state). It is acceptable to have the EFIS-D6 on during engine crank. It immediately powers on upon application of external power.

BARO – Changing Altimeter Setting

In the EFIS > BARO menu, you can adjust the altimeter setting. When the BARO menu is displayed, the value-setting box shows the current altimeter setting. The DEC- and INC+ buttons change the altimeter setting by 1/100th inHg or 1 mbar, depending upon your selected units. As you change the altimeter setting, the altitude indicators change accordingly. Adjust the altimeter setting until the altitude indicators display the correct altitude for your location or the altimeter setting matches the current barometric pressure value.



The altimeter setting can be set in units of inches of mercury (inHg) or millibars (mb). To change the units, simply press buttons 1 or 2, corresponding to the UNITS label. To reset the altimeter setting to standard day pressure (29.92 inHg), press button 3, corresponding to 29.92 (inHg) or 1013 (mb).



The current indicated altitude is preserved across a power cycle. When powered down, the instrument saves the indicated altitude. When it is powered up again, the instrument automatically adjusts the altimeter setting by exactly enough to preserve that saved value. This is not a replacement for modifying the altimeter setting by the pilot before takeoff; it makes it very close to the correct value, minimizing the amount of adjustment needed. To turn auto-set on or off, enter the **SETUP > BARO** menu and set the **ADJUST AT BOOT** option to **ON** or **OFF**.

SETUP – Setting Preferences

Enter the **SETUP** menu to make changes to preferences. Many of the settings in this menu should only be changed by the installer, and are described in the **EFIS-D6 Installation Guide**. The preferences and settings that are relevant to the pilot and in-flight operation are explained below.

CHANGE DISPLAYED UNITS

In the **UNITS** submenu, you may change the system-wide displayed units for the following units. See the following table for a list of available units for each displayed parameter.



Parameter	Available units
Airspeed (IAS)	Knots, miles/hour, kilometers/hour
Altitude (ALT)	Feet, meters
Barometric Pressure (BARO)	inHg, mbar



SHOW/HIDE DISPLAY ITEMS

In the SETUP > CLUTTR menu, you can turn on or off almost every item displayed on the EFIS page. As with all other menu items, these options are abbreviated to commands containing 6 letters or fewer. Pressing a button corresponding to one of these options turns the respective onscreen item on or off. The following table summarizes the display item abbreviations and their function.

Abbreviation	Display Item	Function
ALTBAR	Altimeter Bar	Toggles the display of the graphical altitude tape.
ALTDIG	Altimeter Digital	Toggles the display of the digital altitude window.
IASBAR	Indicated Airspeed Bar	Toggles the display of the graphical airspeed tape.
IASDIG	Indicated Airspeed Digital	Toggles the display of the digital airspeed window.
HDG	Heading	Toggles the display of the heading tape and digital display.
BALL	Slip/skid Ball	Toggles the display of the slip/skid ball and associated center markers.
TURNRT	Turn Rate	Toggles the display of the turn rate indicator and associated scale markers.
AOABAR	AOA Bar	Toggles the display of the angle of attack indicator. The AOA indicator requires the use of a Dynon heated or unheated AOA probe.
ASTRND	Airspeed Trend	Toggles the display of the 6-second airspeed trend indicator next to the IAS tape.
BARO	Altimeter Setting	Toggles the display of the current altimeter setting (also known as the Kollsman setting). This display is not required to adjust the altimeter setting. While in the EFIS > BARO menu, a separate value-setting box appears, allowing adjustments to be made.
ROLL	Roll Scale	Toggles and configures the display of the roll scale. When set to "N", the roll scale is not displayed. When set to "1," the roll scale stays fixed on the screen and the pointer moves along the scale, like a jet EFIS presentation. When set to "2", the roll scale moves with the horizon, while the pointer stays fixed on the screen, like most mechanical attitude instrument presentations.



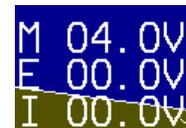
Abbreviation	Display Item	Function
VSI	Vertical Speed Indicator	Toggles and configures the display of the VSI tape next to the altitude tape. The VSI can be hidden (“N”), or can be set to 1k, 2k, or 4k ft/min scaling. The 2000 ft/min display is linear throughout the range, while the 1000 and 4000 ft/min displays incorporate a non-linear scale to increase low vertical speed resolution.
VMETER	Voltmeter	Toggles the display of the Voltmeter, displaying the voltage of the Master power, External Backup power input, and the Internal battery, respectively.

CHECK FIRMWARE VERSION

The SETUP > VRSION menu gives you two important pieces of information: your EFIS-D6’s current firmware version; and the number of hours the EFIS-D6 has been on. If you require technical support or other assistance from Dynon, please have your firmware version ready when you call or write.

VOLTMETER DISPLAY

The voltmeter displays 3 rows of information corresponding to the three power inputs on the EFIS-D6. The first row, labeled M, displays the Master Switch voltage. The second row, labeled E, displays your optional external backup voltage. The third row, labeled I, displays the EFIS-D6 internal battery voltage. If any of the 3 voltage inputs are not present, 00.0V is displayed for the respective voltage values. The letter V follows all three values, denoting the fact that voltages are being displayed. The EFIS-D6 alerts you when the internal battery is low by displaying a low battery alert.



DIM – CHANGING SCREEN BRIGHTNESS

In the DIM menu, press BRITR or DRKR to change the brightness of the display. It is not possible to turn the screen completely black. Note that if power to the EFIS-D6 is cycled, the screen is reset to full brightness.

6. ALERTS

Alarm Indicators

Any time a built-in or preconfigured alarm set point is exceeded, you are alerted to the fact via the alarm bar and menu at the bottom of the screen.

When an alarm is triggered, the following things occur:

- A red alarm bar appears at the bottom of the screen with a message identifying the out of range measurement
- Below the alarm bar, the alarm menu gives you options for what to do next. See the following subsections for more information

Note that alarms may not be acknowledged during the initial two seconds of the first alarm.

In an alarm condition, the EFIS-D6 does not alert you audibly. The audio out connection on the EFIS-D6 is for AOA alerts only.

ALARM ACKNOWLEDGEMENT

To acknowledge the alarm, press the ACK button. The ACK button has a number next to it indicating the number of currently posted alarms. If this number is higher than 1, after you press ACK, you will see the alarm text for the next posted alarm. Pressing ACK does the following:

- Removes the alarm bar and alarm menu (if no other alarms are stacked up), and brings up the previous menu.
- Stops the blinking of the relevant display

The tic and numeric value remain red until the condition no longer exists. The alarm automatically rearms whenever the alarm condition is removed.

7. APPENDIX

This appendix contains information not covered in the main section of the manual. This section contains reference tools such as a detailed description of the serial data format output by the EFIS-D6, a specifications sheet, and a troubleshooting guide. This section also contains details regarding EFIS-D6 servicing.

Appendix A: PC Support Program

Dynon offers a free PC Support Program which allows you to upload new firmware and checklists. The latest version of this program is available from the Dynon Avionics website at downloads.dynonavionics.com.

Appendix B: Troubleshooting

See the EFIS-D6 Installation Guide Appendix for a variety of troubleshooting tips and solutions.

Additional troubleshooting information can be found on Dynon Avionics' Internet sites:

- wiki.dynonavionics.com – Dynon's Documentation Wiki provides enhanced, extended, continuously-updated online documentation contributed by Dynon employees and customers.
- forum.dynonavionics.com – Dynon's Online Customer Forum is a resource for Dynon Avionics customers to discuss installation and operational issues relating to Dynon Avionics products. The Forum is especially useful for pilots with uncommon aircraft or unusual installation issues. For customers that cannot call Dynon Technical Support during our normal business hours, the Forum is a convenient way to interact with Dynon Avionics Technical Support. The Forum allows online sharing of wiring diagrams, photos, and other types of electronic files.

Should you experience difficulty with your product that is not solved by reading the troubleshooting section or information in the wiki or forum, please call Dynon Technical Support at (425) 402-0433 7:00 AM - 5:00 PM (Pacific



Time) Monday - Friday or email us at support@dynonavionics.com. Be sure to have the EFIS-D6's firmware version number ready when you contact us. To locate your product's firmware version, refer to the Check firmware version section on page 5-4.

DISPLAYED ALERT MESSAGES

The following table describes the alert messages that the EFIS-D6 can display.

Alert Message	Description	End condition
INTERNAL ERROR SERVICE UNIT	This error can occur for a few reasons, including an aborted upload. It signifies that the EFIS-D6 has detected internal problems in its firmware or calibration tables.	When this error appears, it may be possible to recover your unit in the field. The best way of ensuring this is to call Dynon Avionics immediately. However, there is a good possibility that the unit will have to be returned for service.
ATTITUDE RECOVERING...	This alert is displayed anytime the unit is rotated at a rate faster than 150 degrees/second or the unit is powered on with airspeed applied. Rotating the unit faster than this threshold will saturate the gyros, leading to potentially erroneous display. The blue/brown horizon indication will turn grey and black to indicate that the artificial horizon is not currently a trusted source. Note that this alert only appears when airspeed is non-zero; using the EFIS-D6 on the bench will not trigger this alert.	The grey/black horizon indication and onscreen message will remain until the unit has resumed normal operation. In the case of rotation rate greater than 150 degrees/second, the unit enters a fast recovery mode and usually recovers within 5 seconds of coordinated flight.



Alert Message	Description	End condition
TEMPERATURE UNSTABLE	When the unit is turned on after having been off for a long period, its internal temperature will rise above ambient at a fast rate. This fast change in temperature can sometimes reduce the reliability of the output of the sensors. Therefore, this alert is displayed and the horizon indication is changed from blue/brown to grey/black.	The screen remains normal color, but the message is displayed until the temperature within the unit has stabilized. This temperature instability should last no longer than 2 minutes. For this reason, it is a good idea to turn the unit on before you run through any of the preflight procedures, so that it will be ready by the time you are ready to fly.
TEMPERATURE OUT OF SPEC	The temperature inside the unit is outside of -30°C to 50°C.	The screen remains normal color, but the message is displayed until the temperature within the unit is within the specified range. This is most common in unventilated panels during hot periods. If you continue to see this alert, provide more airflow to the space around the EFIS-D6.
INTERNAL BATTERY LOW	You will see this alert only when operating the unit solely off the internal backup battery. When its voltage has dropped below a certain threshold, you will see this alert. Additionally, the voltmeter will be displayed onscreen. When you see this alert, it is advisable that you turn the unit off by pressing the POWER button in Main Menu 1.	The alert will disappear when you press any button; however, it is advised that you do not ignore this alert, as it appears when the unit's internal battery has very little life left. This alert will also go away upon the application of either the external backup battery or Master Power. At that point, the battery will begin charging off the external power.



Alert Message	Description	End condition
REMOTE COMPASS NOT DETECTED	The EFIS-D6 is unable to communicate with the EDC-D10A. If you have an OAT connected to your EDC-D10A, you will lose this reading, as well.	Ensure that you a) have an EDC-D10A installed and b) have verified that the wiring to the EDC-D10A is correct. Please see the EFIS-D6 Installation Guide for more information on verifying the installation of the EDC-D10A. This error also can appear if you have updated the firmware in your EFIS-D6 while the remote compass was <i>not</i> connected. If this is the case, try uploading the new firmware again with the EDC-D10A connected. Attempt the connection within the first few seconds of operation. Note that the EFIS-D6 does not have internal magnetic sensors and thus <i>requires</i> the EDC-D10A be connected.



Appendix C: EFIS-D6 Specifications

Mechanical	Mounting:	Fits into standard 3 1/8" panel hole Optional flush mount bracket available
	Weight:	1 lb. 9 oz. (700 g) 1 lb. 15 oz. (880 g) with internal battery

Operating Temperature	-22° to 122° F (-30° to 50° C)
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Power	Voltage:	10 - 30 VDC
	Power:	8 watts typical; 13 watts maximum

Connections	Wiring:	D-25 male
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Screen	Type:	AMLCD, TFT (Thin Film Transistor)
	Backlight:	450 nits
	Size:	4.0" diagonal (101.6 mm)
	Resolution:	320 x 240 color pixels

Inputs/Outputs	1 - Audio Alarm 1 - RS-232 bidirectional PC communication 1 - RS-232 data input (GPS for airspeed failover)
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