

FLYBOX

INNOVATIVE AVIONICS



SkySense AS

Installation and User Manual

**Installation and User Manual, Safety
Instructions and Warning Booklet**

**This product is not TSO'd and cannot be installed
into traditional FAA Part 23 and similarly Type-
Certificate Aircraft**

Document I2026SKYSENSE
Revision#1.0, 04/2026
For firmware version 1.0.3

This booklet is suitable for printing in A5 format.

INTRODUCTION

IMPORTANT NOTICE AND WARNINGS

INDEX

SYSTEM OVERVIEW

MECHANICAL INSTALLATION

ELECTRICAL INSTALLATION

SENSORS INSTALLATION

INSTRUMENT USE

TECHNICAL SPECIFICATIONS

WARRANTY - WARRANTY ACTIVATION

DISCLAIMER

Example of available screen



Thank you for purchasing a Flybox® **Skysense AS** instrument.

The **Skysense AS** instrument is available in 2 different sizes: *57mm and 80mm*. This manual describes the installation of all of the 2 models.

Our intention in developing the **Skysense AS** was to create a product that is light and compact, powerful and easy to use.

The **Skysense AS** is equipped with a state-of-the-art highly visible display and a powerful 32-bit microcontroller. The owner has the option of keeping the instrument software up-to-date by downloading the latest revision available on www.flyboxavionics.it and installing it via a USB pen drive.

We are confident that our products will be satisfactory and make your flying experience enjoyable.

Symbols used in the User Manual



NOTE: Used to highlight important information.



CAUTION: Used to warn the user, it indicates a potentially hazardous situation or improper use of the product.



WARNING: Used to indicate a dangerous situation that can cause personal injury or death if the instruction is disregarded.

**FAILURE TO DO SO MAY RESULT IN SERIOUS
INJURY OR DEATH.**



WARNING: These instructions must be read and respected by installers, and retained for ready reference. The installer must read, understand (or be explained) and heed all instructions and warnings supplied with this product and with those products intended for use in association with it. Always keep a copy of the Installation and User Manual, Safety Instructions and Warning Booklet on the aircraft. In case of change of ownership, the Installation and User Manual, Safety Instructions and Warning Booklet must be delivered together with all of the other papers.



WARNING: Read the Installation and User Manual, Safety Instructions and Warning Booklet before installing the device in the aircraft and follow the procedure described therein.



WARNING: This device is intended to be installed on NON-TYPE CERTIFIED AIRCRAFT ONLY, as it does NOT require any air operator's certificate. Refer to your national aviation authorities to check if this device can be installed on your aircraft.



WARNING: It is the owner's responsibility to test this device before operating the aircraft and to make sure nobody is using it unless properly instructed and authorized to do so.



WARNING: Once the installation process is completed, it is extremely important to test the device before taking off to make sure it works properly. Therefore, we strongly suggest to double check all of the electronic instruments available on the aircraft and to turn them on to verify they function correctly.



WARNING: This device is operated through a software which from time to time can be updated and/or subject to change. Please, always refer to the Installation and User Manual, Safety Instructions and Warning Booklet for the last updated version of the software available on www.flyboxavionics.it



WARNING: It is the responsibility of the installer to properly install the device on the aircraft. In case of calibration, or any technical or functional customization of the device, the responsibility lies with the individual who carried out such operation.



WARNING: If this product is not used correctly, or it is subjected to additions or alterations, the effectiveness of this device may be considerably reduced.



WARNING: Alterations, additions, or repairs not performed by the instrument manufacturer or by a person or organization authorized by the manufacturer shall negate any warranty.



WARNING: The unit isn't waterproof. Serious damage could occur if the unit is exposed to water or spray jets.



WARNING: Skysense AS must be turned off in case of start with booster. Open the corresponding breaker before starting. Warranty shall not apply for damage to the instrument for this reason.



NOTE: The consumer decides of his own free will if the purchased product is suitable and safe for his need. If the consumer does not agree with the notices contained in this Installation and user Manual, Safety Instructions and Warning Booklet, do not install this instrument in his aircraft.



NOTE: Flybox Avionics reserves the right to change or improve its products as well as terms, conditions, and notices under which their products are offered without prior notice.



NOTE: The Installation and User Manual, Safety Instructions and Warning Booklet will be updated annually if needed.

All changes or updates will be published on our website www.flyboxavionics.com in the "support" section.



NOTE: Check the website www.flyboxavionics.it periodically for software and manual updates.



NOTE: For some products, registration may be required to receive important news or information on available firmware updates or to receive security information.

INDEX

1.0 System Overview 12

2.0 SkySense AS Mechanical Installation 14

 2.1 Panel Cut-Out..... 17

3.0 Electrical Installation..... 18

 3.1 SkySense AS Electrical Installation 22

 3.1.1 Power Connector..... 23

 3.1.2 Ambient Light Sensor Connector..... 24

 3.1.3 Outside Air Temperature Connector 25

 3.1.4 CAN Connectors 26

4.0 Sensors Installation 28

 4.1 Outside Air Temperature Sensor (OAT)..... 28

 4.2 Pneumatic Connections 29

5.0 Instrument Use 30

 5.1 Panel indicators and commands 30

 5.2 Instrument configuration 31

 5.2.1 Entering & Browsing the menus 31

 5.2.2 Common items description..... 32

INDEX

5.2.3 Main menu	33
5.2.4 Backlight	34
5.2.5 Gauges menu	36
5.2.6 ASI (Airspeed Indicator)	36
5.2.7 Altimeter	39
5.2.8 Variometer	40
5.2.9 OAT	41
5.3 Firmware Upgrade	42
5.4 Backup & Restore	44
5.5 Main screen data	45

1.0 System Overview

CONSTRUCTION FEATURES

The **Skysense AS** front panel is built from solid aluminum alloy, CNC milled and powder coated to last a long time over the years always showing a new appearance. The other parts of the housing are made of corrosion-protected aluminium.

ELECTRONICS

The **Skysense AS** use a powerful 32 bit microcontroller to ensure reliability and accuracy over time.

ERGONOMICS

- Full round 2.1 inch / 2.76 inch (depending on model) TFT color display, 480x480 Pixels, 1000 nits, antiglare surface, sunlight readable, wide temperature range.
- A high quality knob encoder with push button for easy access to all features.
- Automatic backlight dimming function thanks to external light sensor.

EASY SOFTWARE UPDATE

The user can download any new firmware, when available from Flybox website, connect a USB pen drive to the instrument and freely update it with the last features.

ABOUT SAFETY

Skysense AS has been designed with safety in mind. The self-diagnostic system continuously monitors instrument health, minimizing risks and unexpected issues during flight.

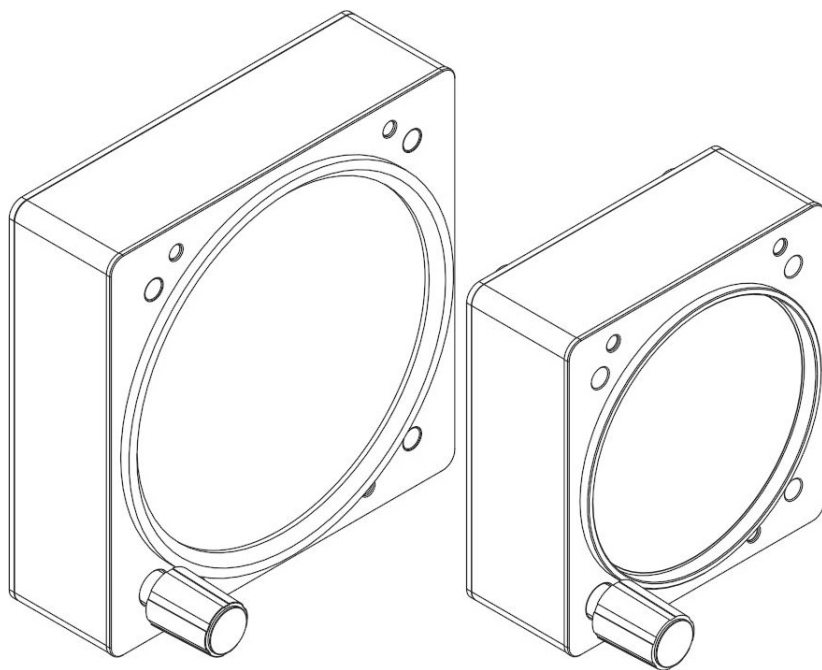


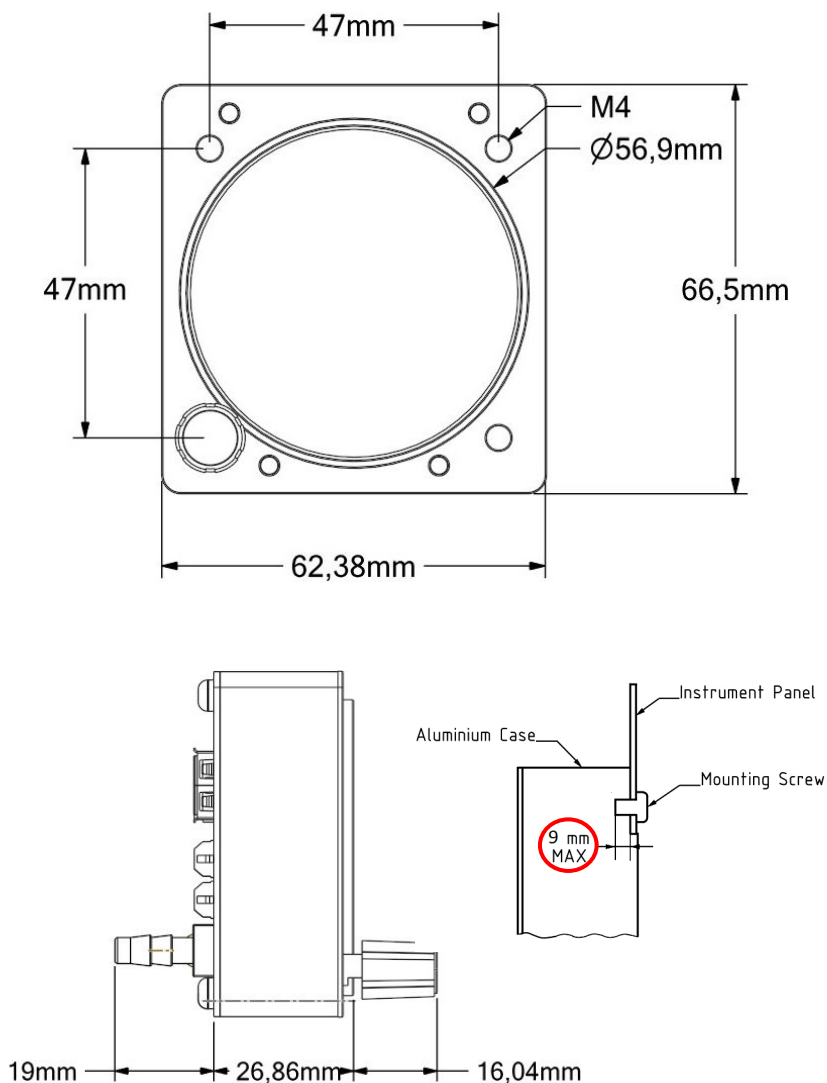
NOTE: for easy access to the USB port, it is recommended to install a USB extension cable in the **Skysense AS** instrument and store the free connection in an easily accessible part of the dashboard. It is not recommended to use extension cables longer than 50 CM.

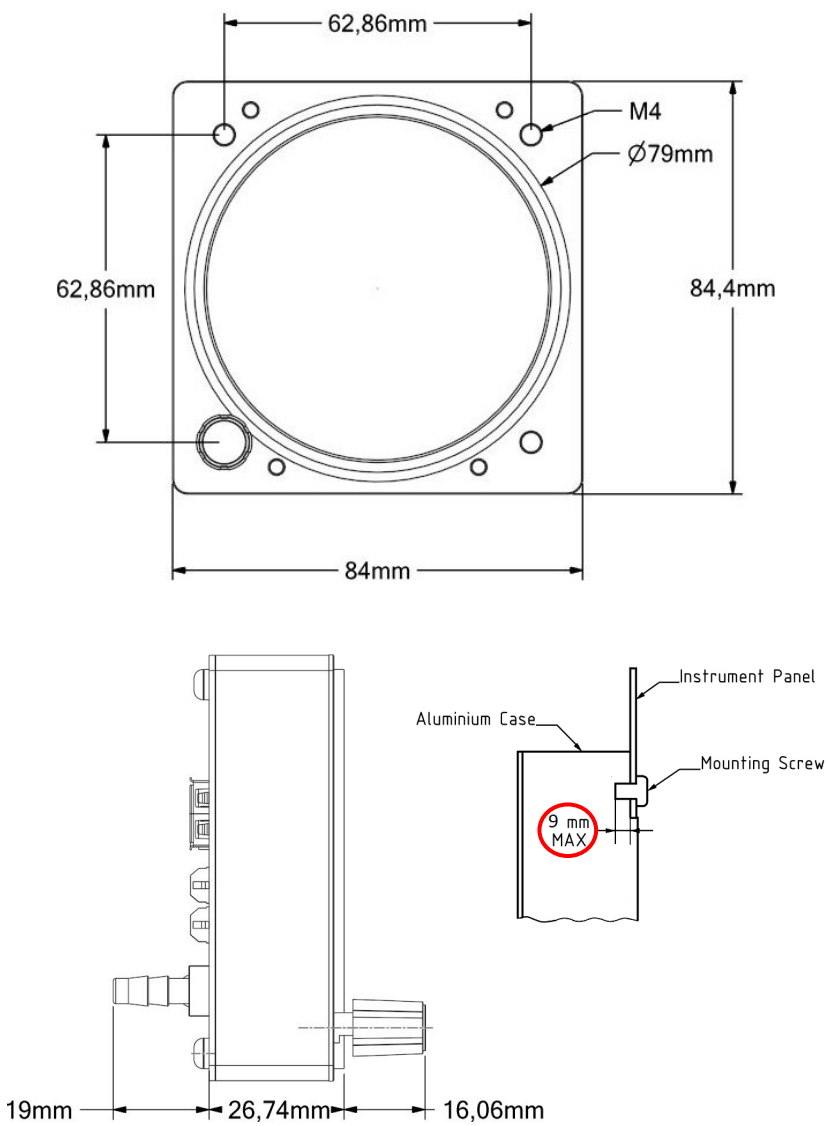
2.0 SkySense AS Mechanical Installation

It's recommended to choose a position that permits optimal display visibility. The instrument is supplied with four M4X10mm screws to install it to the panel, if you use other screws consider that **the maximum thread length inside the instrument body is 9 mm.**

Screws longer than 10 mm will damage the instrument and void the warranty.







2.1 Panel Cut-Out

The **Skysense AS** instruments fit in a standard 2 1/4" (57 mm) or 3 1/8" (80 mm) panel cutout, depending on the size purchased.



NOTE: For an installation without interference, consider making a hole of at least 57.5 mm or 80.5 mm diameter.

3.0 Electrical Installation

POWER SPECIFICATIONS

Skysense AS is capable of operating at either 14 or 28 VDC. On the following table are listed the power requirements for Skysense AS; the specified current draw is measured with the Skysense AS display backlight set to maximum brightness and without any sensor attached.

Power Supply	Skysense AS57	Skysense AS80
14 V	80 mA 1.12 W	110 mA 1.54 W
28 V	70 mA 1.96 W	80 mA 2.24 W



CAUTION: Voltage peaks on the supply line that exceeds the operating limits can damage the device.

General wiring hints:

- It is recommended that Skysense AS be installed prior to constructing the wiring harnesses and cables.
- Use aeronautic cable for the wiring.
- Take care to properly insulate any exposed wire to avoid short circuits between them.
- All cable routing should be kept as short and as direct as possible.

- Check that there is ample space for the cabling and mating connectors.
- Avoid sharp bends in cabling.
- Avoid routing near aircraft control cables.
- Avoid routing cables near heat sources, RF sources, EMI interference sources, power sources and close to or parallel to spark plug cables

The pre-wired power cable is provided with the SkySense AS instrument, while other connectors and associated crimp contacts are supplied with the relevant optional accessories.



CAUTION: To avoid damage to the Skysense AS take precautions to prevent Electro-Static Discharge (ESD) when handling connectors and associated wiring. ESD damage can be prevented by touching an object that is on the same electrical potential as the Skysense AS before handling it.



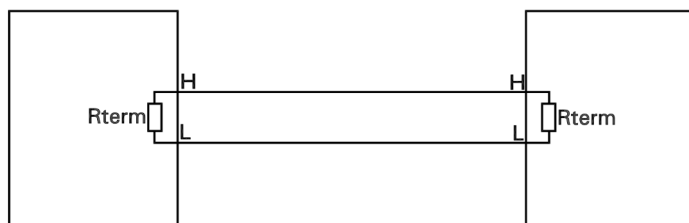
CAUTION: Check wiring connections for errors before connecting any wiring harnesses. Incorrect wiring could cause internal component damage.

CAN-BUS INFORMATIONS

Skysense AS has CAN bus (Controller Area Network) interfaces.

The basic electrical architecture of a CAN bus consists of a single twisted or shielded wire pair with a device connected at each end. Each end must be terminated with a 120 ohm resistor, that in the case of Skysense AS is integrated inside the instruments so that the installer should simply connect together two pin on the connector to perform the required terminations.

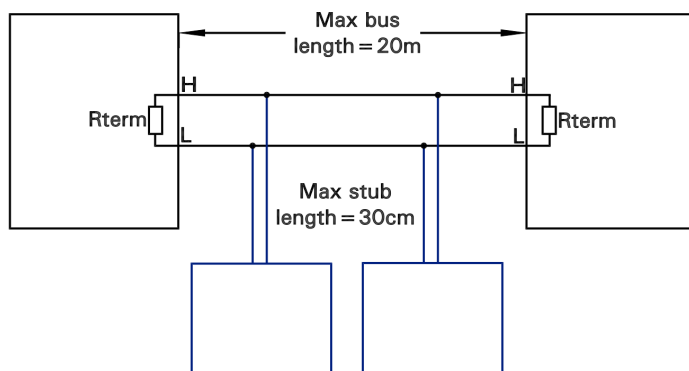
The maximum length from end to end of the CAN bus is 20 meters.



Basic CAN bus architecture

Other devices can be connected to the bus through short stub (also called “node”) connections. This device must not be terminated with the resistor and the maximum length should not exceed 30cm.

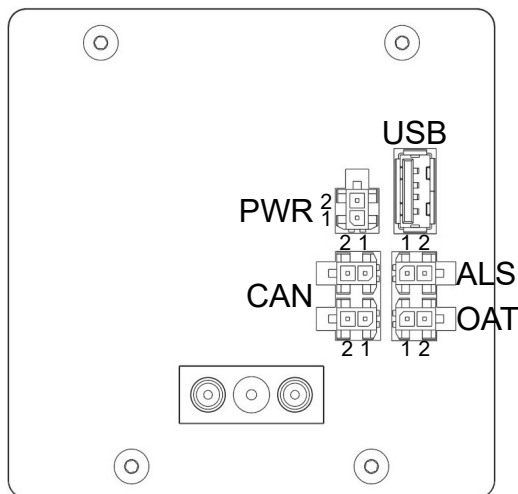
One stub or node must serve to connect only one device; multiple devices must be connected to the bus in a daisy-chain configuration as in this examples picture:



CAN bus node connections

The wiring for the CAN bus connections can be twisted pair or shielded twisted-pair. We recommend the use of shielded wires for better performance, connecting the shield to the ground of both devices on the terminated ends of the bus. It's important also that all the devices connected to a CAN bus share the same power ground reference. This means that the power ground of the various devices must be connected to a single ground point (do not use aircraft structure as a power ground).

3.1 SkySense AS Electrical Installation



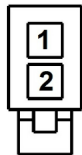
Rear view

The pre-wired power cable is provided with the instrument, while other connectors and associated crimp contacts are supplied with the relevant optional accessories:

Flybox cod. 601021 (OAT probe)
 Flybox cod. 105801 (Ambient light sensor)
 Flybox cod. 105820/105830/105840 (CAN bus cables)
 Flybox cod. 105810 (CAN termination)

Molex P/N 43025-0200 (2 pole housing)
 Molex P/N 43030-0001 (female crimp terminal)

3.1.1 Power Connector



2 pin Molex Micro-Fit Receptacle P/N 43025-0200. View from wires insertion side.
Female crimp terminal P/N 43030-0001.

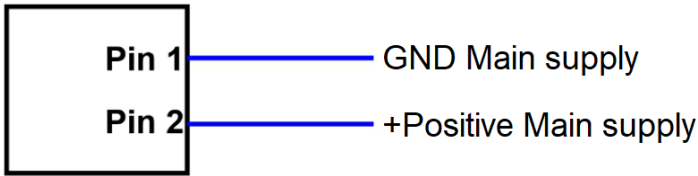
2 Poles **Power** connector

PIN #	Type	Description	Note
1	In	GND Main supply	
2	In	+Positive Main supply	Max 10-30 VDC

Signals explanation

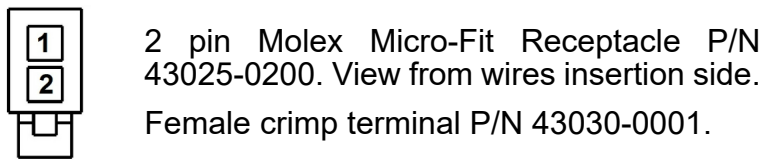
● **Power supply (PIN#1-2):**
SkySense AS is capable of operating at either 14 or 28 VDC, AWG24 wire is enough. It's recommended to insert a 1A circuit breaker on the positive wire that supply the SkySense.

Power Wiring Connections



NOTE: The pre-wired power cable is provided with the instrument.

3.1.2 Ambient Light Sensor Connector



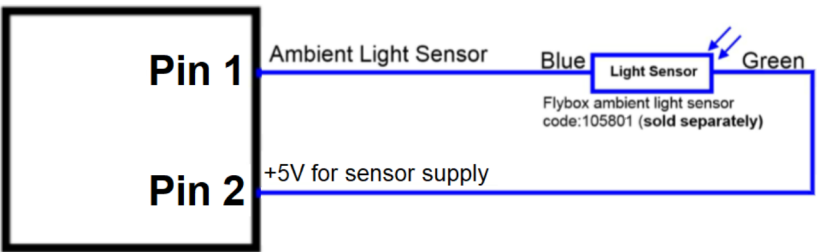
2 Poles **ALS** connector

PIN #	Type	Description	Note
1	In	Ambient light sensor input	
2	Out	+5V for sensor supply	Max 300 mA

Signals explanation

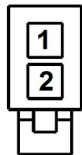
● **Ambient light sensor input (PIN#1):**
Support Flybox 105801 sensor, which comes with a 50 cm cable and a Micro-Fit connector. Not required if you want to manually adjust the instrument backlight or if the value is received from Flybox Omnia family CAN Bus.

Power Wiring Connections



NOTE: The ambient light sensor is sold separately.

3.1.3 Outside Air Temperature Connector



2 pin Molex Micro-Fit Receptacle P/N 43025-0200. View from wires insertion side.
Female crimp terminal P/N 43030-0001.

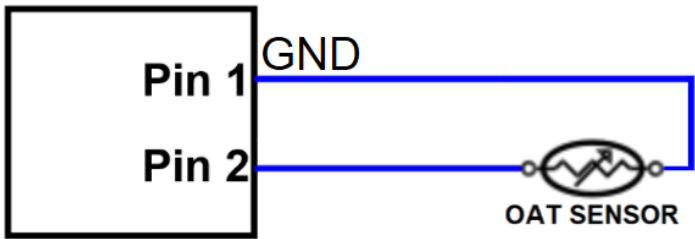
2 Poles **OAT** connector

PIN #	Type	Description	Note
1	Out	GND	
2	In	OAT sensor input (PT1000)	0-5 V

Signals explanation

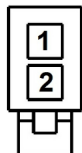
- **OAT - Outside air temperature (PIN#2):**
Support PT1000 sensors. See chap.4.1 for further details.
The OAT probe is required to calculate TAS

Power Wiring Connections



NOTE: The OAT sensor is sold separately.

3.1.4 CAN Connectors



2 pin Molex Micro-Fit Receptacle P/N 43025-0200. View from wires insertion side.

Female crimp terminal P/N 43030-0001.

2 Poles **CAN** Upper connector

PIN #	Type	Description
1	I/O	CAN H Internally connected with the Pin 1 - CAN H (Lower connector)
2	I/O	CAN L Internally connected with the Pin 2 - CAN L (Lower connector)

2 Poles **CAN** Lower connector

PIN #	Type	Description
1	I/O	CAN H Internally connected with the Pin 1 - CAN H (Upper connector)
2	I/O	CAN L Internally connected with the Pin 2 - CAN L (Upper connector)

Signals explanation

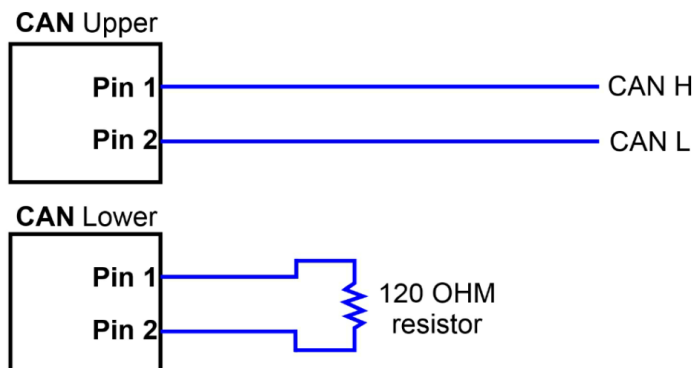
● CAN BUS (PIN#1-2):

CAN bus line is used for communication with other SkySense instruments and Omnia family instruments.

Its exclusive use is to allow a single light sensor to provide information to all the connected instruments for automatical backlight intensity adjustment; use shielded or twisted wire pair, AWG24 is enough.

If the device is located at the end of the bus the CAN bus termination is required.

CAN Wiring Connections



NOTE: optional CAN termination 120 ohm is available from Flybox® (cod. 105810)



NOTE: optional CAN bus cables are available from Flybox® in 3 different lenght: 25 cm, 50 cm or 100 cm (cod. 105820/105830/105840)

4.0 Sensors Installation

Carefully follow the instructions in the following paragraphs for the correct installation of the sensors. Check the compatibility of your sensors prior to installation.

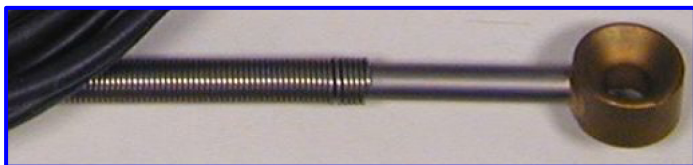
4.1 Outside Air Temperature Sensor (OAT)

The supported OAT sensor types are:

- **PT1000 resistive sensors**

Connect one wire to pin #2 of OAT connector and the other wire to pin #1. The probe has no polarity.

- **Flybox[®] OAT sensor (P/N 601021)**



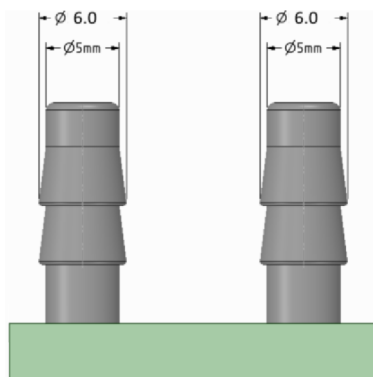
Flybox[®] OAT sensor is a PT1000 and can be fixed with a 5 mm countersunk screw. The probe comes with a 2.5 m cable (which can be cut to length) and a 20 cm pre-wired Micro-Fit connector.

For optimal outside temperature indication it must not be installed in direct sunlight locations or near heat sources.

4.2 Pneumatic Connections

On the back of the instrument there are two 6mm brass fitting that must be connected to the static pressure (STATIC) and to the dynamic pressure (PITOT) by a rubber tube.

Tighten the tube with a proper clamp.



5.0 Instrument Use

Follow the instruction of this chapter to better understand how to use *SkySense AS*.

5.1 Panel indicators and commands



Knob with pushbutton

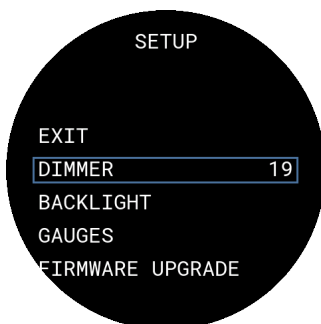
The knob is used to change reference pressure value (QNH) and navigate menus. Double press the knob button will toggle between QNH and QNE (1013hPa or 29.92 inHg). Within menus it allows different actions.

5.2 Instrument configuration

Before using *SkySense AS* you need to configure it; read completely this chapter and follow step by step the sections to completely configure all the gauges.

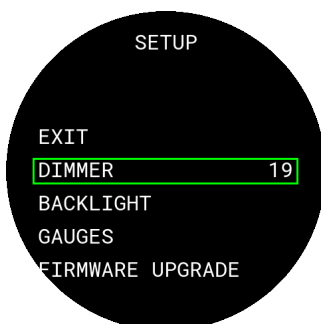
5.2.1 Entering & Browsing the menus

To enter the main menu press and hold the knob button for 1 second.



For example, to change the display brightness:

- Select *Dimmer* by pressing the knob button; border will become green , this means that the selected item is editable.



- Turn the knob to change the value, then push again the knob button to confirm the selected value. Or hold the knob button for 1 seconds to restore the initial value.

This way of working is the same for editing all parameters inside the various menus.



NOTE: inside all menus and submenus there is an *EXIT* item that allows instant return to main screen.



NOTE: into submenus, the *BACK* item returns to parent menu.

5.2.2 Common items description

To avoid repetition, common menu items are described in the current section. Only functionality is described, any other options will be specifically when required.

- **Enabled:** enables or disables the visibility of the gauge on the display, can be YES or NO (*default YES*).
- **Filter:** assigns the strenght of the digital filter in a range from 1 to 10. If the measure is affected by noise, increase the value. If there is a delay between the input change and the measurement, the value should be decreased. Default may vary depending on gauge.
- **Unit:** assigns the measurement unit.

5.2.3 Main menu



- **Dimmer:** display brightness adjustment can be a value between 1 and 19 (*default 19*).
- **Backlight:** enter the “Backlight” menu.
- **Gauges:** enter the “Gauges” menu.
- **Firmware Upgrade:** start the firmware update function from USB flash drive.
- **Backup & Restore:** starts the function of saving/restoring parameters to/from USB flash drive.
- **About:** enter the screen with device information.

5.2.4 Backlight



- **Mode:** select the way to change display backlight. Options are:

Menu label	Description
Manual (default)	Allows regulate the display brightness by changing the <i>Dimmer</i> parameter.
Auto Sens	Regulate the display brightness according to the ambient light read from ambient light sensor
Auto Can	Regulate the display brightness according to the ambient light value received from Flybox Omnia family CAN Bus

- **Smoothness:** choose how fast the backlight changes when there is a variation of light on the sensor. It has a range from 1 to 3 (default 1).

- **Min light(%)**: choose minimal backlighting when the environment is dark. It has a range from 1 to 20 (*default 1*).



NOTE: *Auto Sens* mode requires installation of the *Wired Ambient Light Sensor cod. 105801*.

5.2.5 Gauges menu



This allows you to choose which gauge to edit. Editable gauges are:

- *ASI (AIRSPEED INDICATOR)*
- *ALTIMETER*
- *VARIOMETER*
- *OAT*

5.2.6 ASI (Airspeed Indicator)

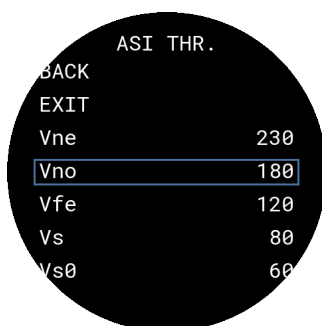


- **Filter:** as in chapter 5.2.2 - *Common items description*.

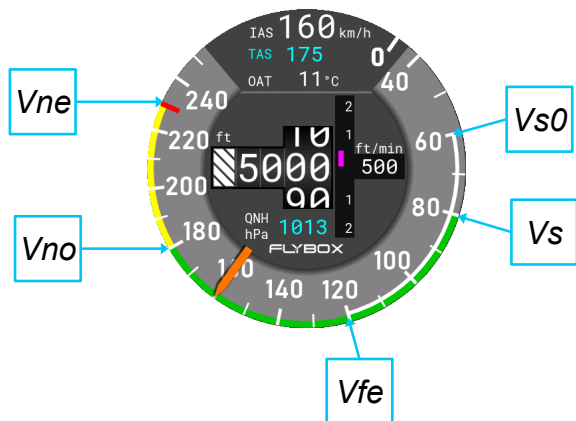
- **Unit:** as in chapter 5.2.2 - *Common items description*. Options available are:

Menu label
km/h (default)
kts
mph

- **Tas Visible:** enable or disable True Airspeed indication in the main screen. NOTE: it needs an OAT probe (*Cod. 601021*) installed to work properly.
- **Background:** choose the style of the background. Available options are *BRIGHT* or *DARK*. (default *DARK*).
- **Thresholds (submenu):** assigns the value of the characteristic speeds (V speeds) of the aircraft. These will be represented on the main screen by the colored arcs. All values are displayed according the measurement unit set in the ASI menu.



Menu label	Description	Position
Vne	never exceed speed	Red mark
Vno	maximum structural cruising speed or maximum speed for normal operations	Begin of yellow arc
Vfe	maximum flap extended speed	End of white arc
Vs	stall speed or minimum steady flight speed for which the aircraft is still controllable	Begin of green arc
Vs0	stall speed or minimum flight speed in landing configuration	Begin of white arc



NOTE: Vne value will automatically adjust the full scale of the ASI. (Max full scale 350km/h - 175kts - 175mph)

SkySense AS - Installation and User Manual,
Safety Instructions and Warning Booklet

5.2.7 Altimeter



- **Unit:** as in chapter 5.2.2 - *Common items description*. Option available are *m* (meters) or *ft* (feet) (default *ft*).
- **Ref. Unit:** unit of measurement of the reference pressure (QNH). Option available are *hPa* or *inHg* (default *hPa*).
- **Filter:** as in chapter 5.2.2 - *Common items description*.
- **Style:** choose the style of the altimeter gauge. Option available are *DRUM* or *TAPE* (default *DRUM*).

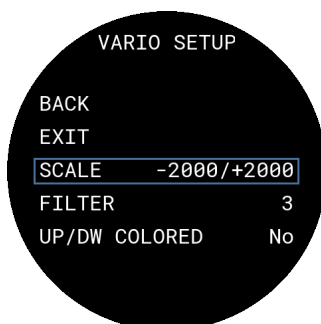


DRUM STYLE



TAPE STYLE

5.2.8 Variometer

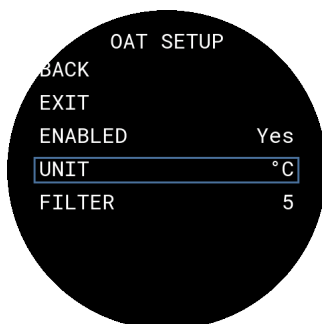


- **Scale:** choose the full scale of the variometer. Options available (depending on altimeter unit) are:

<i>Altimeter in feet</i>	<i>Altimeter in meters</i>
fpm (feet per minute)	m/s (meters per second)
-1000/+1000	-5/+5
-2000/+2000	-10/+10

- **Filter:** as in chapter 5.2.2 - *Common items description*.
- **Up/Dw colored:** if YES set the color of VSI value, light blue while climbing and brown while descending, otherwise it will be leaved white. (*default NO*)

5.2.9 OAT



- **Enabled:** as in chapter 5.2.2 - *Common items description*. If NO is selected also TAS indication won't be visible.
- **Unit:** as in chapter 5.2.2 - *Common items description*. Option available are °C or °F (default °C).
- **Filter:** as in chapter 5.2.2 - *Common items description*.

5.3 Firmware Upgrade

This menu is used for upgrading the firmware versions of *SkySense AS* using a USB 2.0 flash drive.

If you have received the upgrade files for *SkySense AS*, copy it in the root folder of a USB 2.0 flash drive.



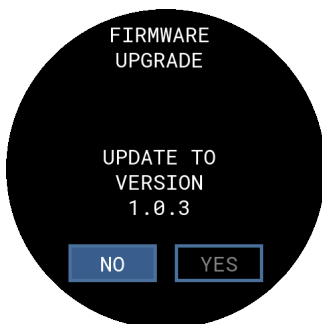
NOTE: If you received the file in zip format, unzip the content (without folder creation) in the root folder.



CAUTION: DON'T RENAME THE FILE OR CHANGE EXTENSION, otherwise the system won't be able to recognize it.

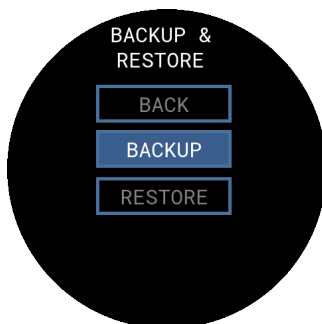
You can then check or upgrade by following this procedure:

1. From the main menu, select *Firmware Upgrade*.
2. Insert the USB 2.0 flash drive with the upgrade files to the rear connector.
3. If file is correctly recognized the upgrade screen will appear as in the next image.



4. Select YES.
5. Wait until the firmware upgrade is completed then turn off the power and remove the flash drive.

5.4 Backup & Restore



This menu is used to save or restore all the settings of your *SkySense AS*.

Backup: Insert a USB flash drive in the USB rear connector on *SkySense AS* and then select this item to save all the settings on the USB 2.0 flash drive.

The filename of the backup is **AS_BACKUP_XXXXXXXXX.par**, where XXXXXXXX is the ID number of the device (eg. AS_BACKUP_123456AB.par)



NOTE: It's recommended to perform the backup right after finishing to set the instrument and copy the **AS_BACKUP_XXXXXXXXX.par** file in a safe place to have the opportunity to recall the settings if needed.

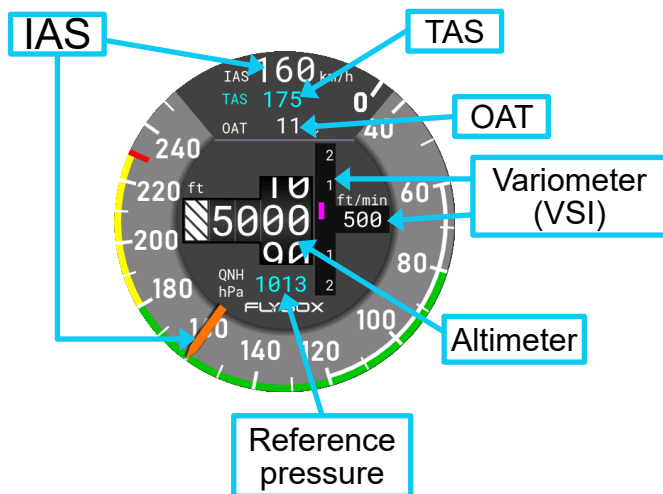
Restore: Insert the USB flash drive where you have previously performed the backup (or manually copy the backup file **AS_BACKUP_XXXXXXXXX.par** in a USB 2.0 flash drive) then select this item to restore all the settings on *SkySense AS*.



NOTE: all current parameters will be overwritten after the restore.

5.5 Main screen data

SkySense AS has one main screen containing all information.



NOTE: in this manual the picture will show a SkySense AS configuration that may differ from the reality. This will depend on settings made by the user. Images are for illustrative purposes only.

Available information are:

- **IAS (Indicated Air Speed):** numerical and graphical indication expressed in *km/h*, *kts*, *mph* depending on user settings.
- **TAS (True Air Speed):** numerical indication expressed in the same unit as IAS. If the value is not available due to missing OAT probe, a dashed text will be shown.

- **OAT:** numerical indication expressed in °C or °F depending on user settings. If the value is missing due to a sensor error, a dashed text will be shown.
- **Altimeter:** graphical indication in *DRUM* or *TAPE* style expressed in feet or meters depending on user settings. The first counter on the left (tens of thousands) can change it's appearance to indicate negative value, inoperative sensor or value below 10000.



Negative
altitude



Inoperative
Sensor



Altitude
below 10000

- **Variometer:** graphical and numerical indication expressed in *fpm* or *m/s* depending on user settings.
- **Reference pressure:** numerical indication expressed in *hPa* or *inHg* depending on user settings. Can be toggled between *QNH* and *QNE* by double press the knob button.

Page intentionally blank

Technical specifications

SKYSENSE AS57

- Graphic 2.1" TFT round LCD with backlight
- Standard mounting 2-1/4" 57 mm
- Powder painted aluminium case
- Dimensions: 62.38 x 66.5 x 26.86 mm (body)
- Weight: 110 g
- Supply voltage: 10 ~ 30 V=
- Power supply: ~1.96 W

SKYSENSE AS80

- Graphic 2.76" TFT round LCD with backlight
- Standard mounting 3-1/8" 80 mm
- Powder painted aluminium case
- Dimensions: 84 x 84.4 x 26.74 mm (body)
- Weight: 155 g
- Supply voltage: 10 ~ 30 V=
- Power supply: ~2.24 W

Technical specifications

SKYSENSE AS

- Operating temperature range: -20 ~ +70°C
- Storage temperature range: -30 ~ +80°C
- Humidity: 90% max (without condensation)
- Communication through CAN bus
- USB port: for USB 2.0
- Outside air temperature from PT1000 sensor
- Altitude meas. range: -1000' ~ +25000'
- Airspeed meas. range: 30 ~ 650 km/h (16 ~ 350 kts, 18 ~ 403 mph)

Display cleaning

To clean the display use a smooth cloth, slightly moistened with water. Use a cleaner that is specified as safe for anti-glare coatings.



CAUTION: Avoid any chemical cleaners or solvents that can damage the display anti-glare coating or plastic components. Do not use cleaners containing ammonia. Do not spray water or cleaner directly onto the display.

One Year Warranty:

Product support and warranty information can be found at www.flyboxavionics.it.

Flybox® warrants the registered Product to be free from defects in materials and workmanship for 12 months from date of delivery. The inactivity of the Products determined by periods of repair does not involve the extension of the warranty period. This warranty covers only defects in material and workmanship found in the products under normal use and service when the product has been properly installed, maintained and registered. This warranty does not cover failures due to abuse, misuse, accident, improper maintenance, failures to follow improper instructions or due to unauthorized alterations or repairs or use with equipments with which the Products is not intended to be used. Flybox®, after verification of the complaint and confirmation that the defect is covered by warranty, at its sole discretion, will either replace or repair the Products at no costs for the customer. Alterations, additions, or repairs not performed by the manufacturer shall negate any warranty. This warranty doesn't cover cosmetic or incidental damages. Shipping costs, taxes, custom fee, any other duties and any costs incurred while removing, reinstalling or troubleshooting the Products, shall be at customer's charge.

TO THE EXTENT PERMITTED BY LAW, THE WARRANTIES AND REMEDIES CONTAINED HEREIN ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES EXPRESS, IMPLIED, OR STATUTORY, INCLUDING ANY LIABILITY ARISING UNDER ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, STATUTORY OR OTHERWISE. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, WHICH MAY VARY BASED ON YOUR JURISDICTION. TO THE EXTENT PERMITTED BY LAW, IN NO EVENT SHALL UPRIGHT BE LIABLE FOR ANY INCIDENTAL, SPECIAL, INDIRECT, OR CONSEQUENTIAL DAMAGES, WHETHER RESULTING FROM THE USE, MISUSE, OR INABILITY TO USE THIS PRODUCT. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS MAY NOT APPLY TO YOU.

Out of warranty repairs

Products that can not be repaired under warranty as out of the maximum term or that do not work for reasons that would have been covered by warranty, can be repaired at a flat rate as described on the site. For out-of-warranty eligible damages, the repair must be assessed for each individual case.

Term of Use and Disclaimer

Limitation of Liability

In no event shall MICROEL s.r.l. be liable for any direct, indirect, punitive, incidental, special consequential damages whatsoever arising out of or connected with the use or misuse of its products.

Entire Obligation

The TERM OF USE, WARRANTY AND DISCLAIMER document states the entire obligation of MICROEL S.r.l. with respect to the products. If any part of this disclaimer is determined to be void, invalid, unenforceable or illegal, including, but not limited to the warranty disclaimers and liability disclaimers and liability limitations set forth above, then the invalid or unenforceable provision will be deemed superseded by a valid, enforceable provision that most closely matches the intent of the original provision and the remainder of the agreement shall remain in full force and effect.

General

This disclaimer statement is governed by the laws of ITALY. You hereby consent to the exclusive jurisdiction and venue of the Courts of competent jurisdiction, ITALY, in all disputes arising out of or relating to the use of this product. Use of this product is unauthorized in any jurisdiction that does not give effect to all provisions of these terms and conditions, including without limitation this paragraph.

Date	Rev.	Description
May 2026	1.0	First release

Flybox® reserves the right to change the terms, conditions, and notices under which their products are offered without prior notice”.

WARNING: All photos, data, drawings, instruments layouts, technical solutions and data representation you find in this document or watching at FLYBOX® instruments working and/or you can access by means of any other media, including web sites, are sole property of MICROEL s.r.l., cannot be copied or imitate without a written permission of MICROEL s.r.l. itself and are protected by law, even by means of extended international copyright and/or specific patents deposited. Any infringement of this statement and of MICROEL s.r.l. intellectual property will be prosecuted.

©2019 Microel s.r.l. – all rights reserved

Important

Do not send your instrument for repair until you have filled out the request form on the support page at www.flyboxavionics.it. After filling out the form you will receive an authorization email with the RMA number.

Page intentionally blank

Page intentionally blank

Page intentionally blank

Flybox® is a registered brand of Microel s.r.l.- Italy
www.flyboxavionics.it

MICROEL s.r.l.
Via Mortara 192-194
27038 Robbio (PV) - ITALY
Tel +39-0384-670602 - Fax +39-0384-671830

SkySense AS - Installation and User Manual,
Safety Instructions and Warning Booklet