

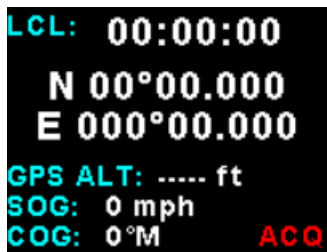
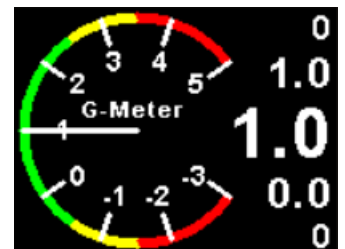
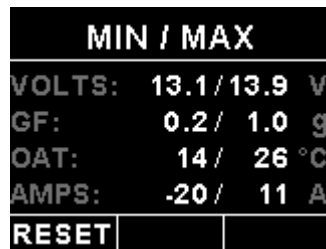
# Blaze INFO-2

## Information Display

Operating Manual – English 1.07



- G-force meter
- UTC and local time display
- Slip indicator
- Battery Voltage, \*Current and Charge display
- OAT display
- Flight Timer & Flight log
- Stopwatch
- Countdown Timer
- Alarm
- NMEA GPS Viewer



\* Requires the Closed Loop Current Sensor (sold separately)

## Introduction

The INFO-2 is a 3 1/8" (80mm) sunlight readable multifunction color display instrument. The INFO-2 has the following features:

### **G-force meter**

The INFO-2 is capable of measuring g-forces exerted in an aircraft up to +/-10g. The INFO-2 also has the facility to record the maximum positive and negative g-forces encountered (typically during a flight) in permanent memory, with a password protected reset facility. It also features two independent cycle counters to capture the amount of times a preset force has been exceeded. The INFO-2 is able to measure g-forces even if the instrument is not mounted exactly on the vertical axis of the aircraft.

### **UTC and Local Time display**

The INFO-2 is capable of displaying both UTC (as known as Zulu time) and local time to facilitate ordinary ATC time reporting. Time is maintained by an internal lithium battery which can be replaced by the user.

### **Slip indicator**

The INFO-2 can display a slip indicator. The slip indicator can be disabled in the menu system.

### **Battery Voltage, \*Current and Charge display**

The INFO-2 can be used to monitor your aircraft's battery power supply. The INFO-2 is very useful in determining your battery's health, charging status, as well as the current load consumption of your aircraft. The INFO-2 can be used in both 12V and 24V aircraft and can measure voltages up to 30V DC.

The INFO-2 uses the MGL Avionics Magnetic Closed Loop Current Sensor to measure the aircraft's current load. The INFO-2 contains a programmable low/high voltage alarm to automatically detect bad batteries and alternator failures. The maximum and minimum voltage reached is also recorded in permanent memory.

### **OAT display**

OAT can be shown in either degrees Celsius or degrees Fahrenheit. The INFO-2 also contains a programmable low/high OAT alarm. The maximum and minimum OAT reached is also recorded in permanent memory.

### **Flight Timer & Flight log**

The INFO-2 provides a 50 entry flight log that stores the start time and duration of each of the last 50 flights. The flight timer can either be started using a front push button or from a remote input.

### **Stopwatch, Countdown Timer & Alarm**

Stopwatch and timers can be operated simultaneously to a programmable alarm, making the INFO-2 particularly suitable for sport flying competitions.

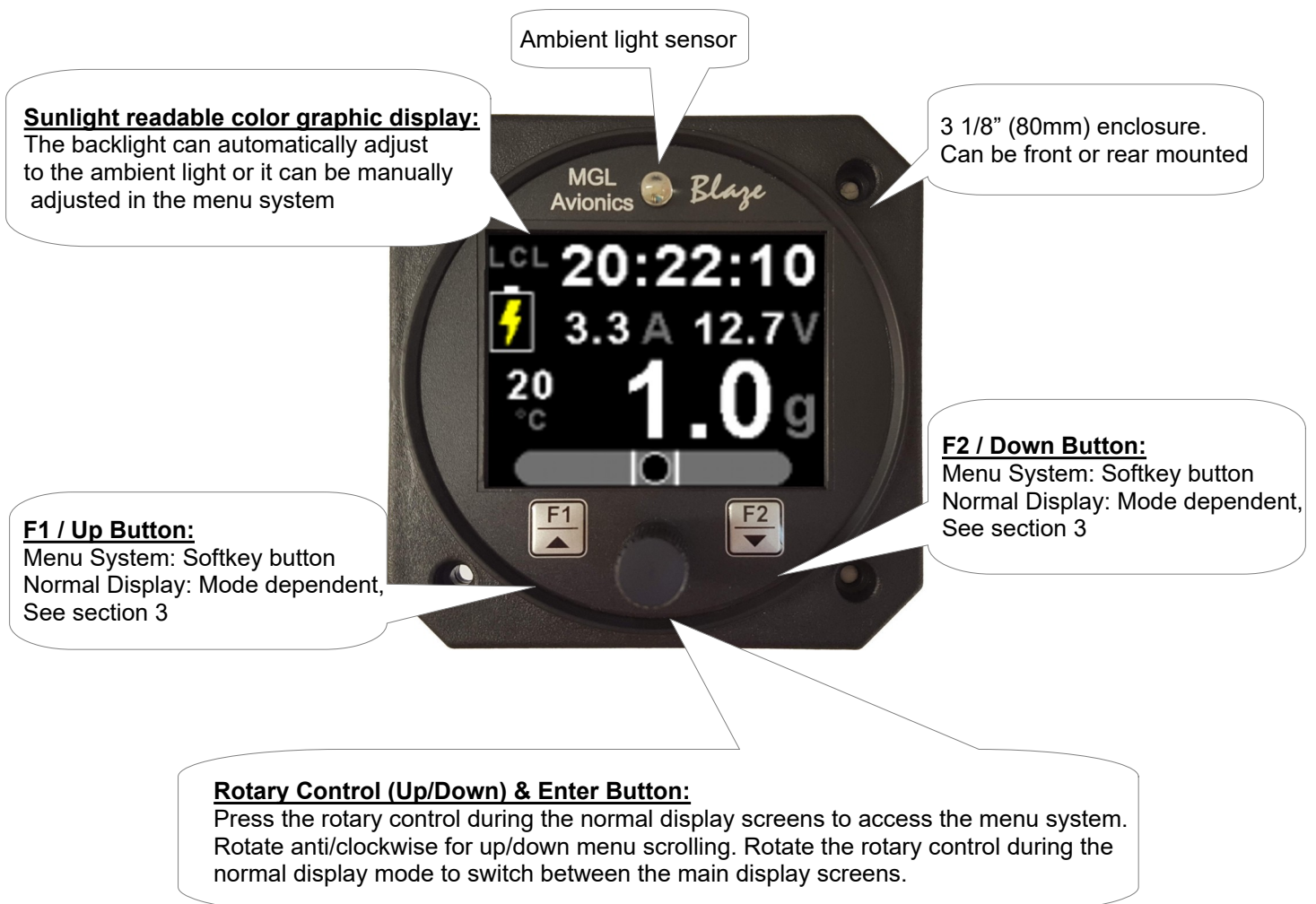
## 1 Features

- Large 2.6" high resolution 320x240, IPS (fully viewable in all directions), sunlight readable color LCD display
- G-force range of +/-10g
- Records the maximum positive and negative g-forces encountered (typically during a flight) in permanent memory, with a password protected reset facility
- Two independent cycle counters capture the amount of times a preset force has been exceeded
- Able to measure G-forces even if the instrument is not mounted exactly on the vertical axis of the aircraft
- Capable of displaying both UTC (Zulu time) and local time
- Time is maintained by an internal lithium battery which can be replaced by the user
- Can measure voltages up to 30V (compatible with both 12V and 24V aircraft supplies)
- Contains a programmable low/high voltage alarm to automatically detect alternator failures and bad batteries
- Uses the MGL Avionics Magnetic Closed Loop Current Sensor to measure the aircraft's current load.
- \*Contains a charge status indicator
- OAT can be shown in degrees Celsius or degrees Fahrenheit

- Contains a programmable low/high OAT alarm
- Provides a 50 entry flight log that stores the start time and duration of each of the last 50 flights
- The flight timer can either be started using a front push button or from a remote input
- Stopwatch and timers can operate simultaneously to a programmable alarm
- Built in NMEA GPS Viewer
- Automatic or manual magnetic variation calculation
- Sunset and sunrise time display
- Displays time & date, GPS altitude, SOG, COG, latitude and longitude when using an external NMEA compatible GPS receiver
- Includes a RS232 serial output for interfacing to external equipment e.g dataloggers etc.
- Standard 3 1/8" (80mm) aircraft enclosure (can be front or rear mounted)
- The LED backlight can automatically adjust to the ambient light, or it can be manually adjusted in the menu system
- Rotary control plus 2 independent buttons for easy menu navigation and user input
- An external output activates when an alarm condition has been reached
- Wide input supply voltage range of 8 to 30V DC with built in voltage reversal and over voltage protection for harsh electrical environments
- 1 year limited warranty

\* Requires the Closed Loop Current Sensor (sold separately)

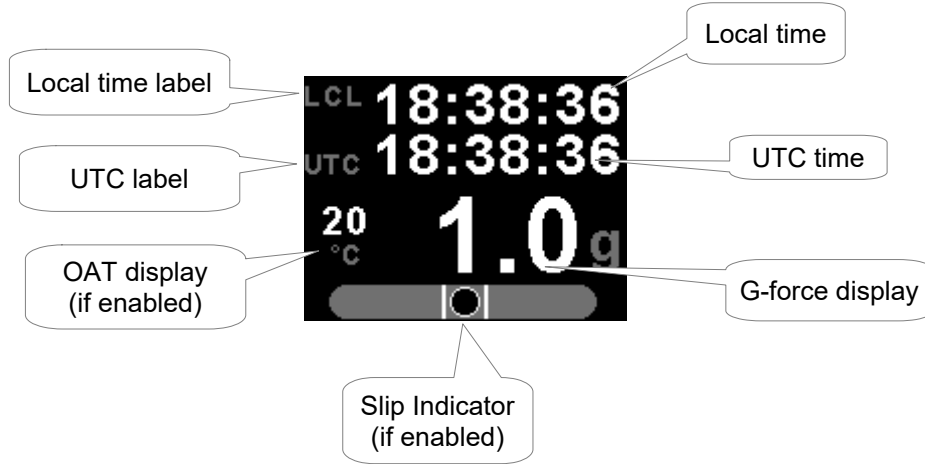
## 2 Layout



### 3 Main Displays

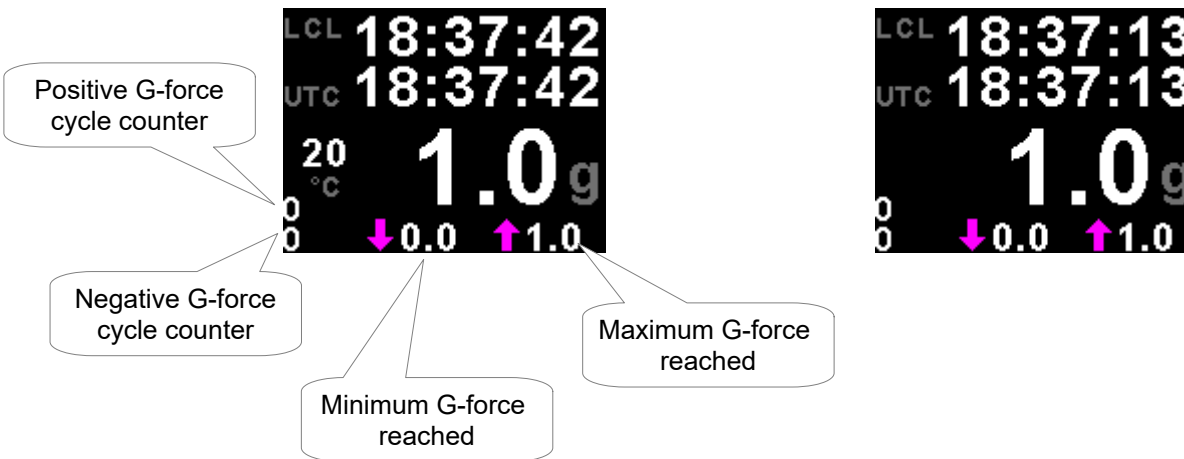
The INFO-2 has various display screens depending on the mode selected. The local time, G-force, Slip (if enabled) and OAT (if enabled) is shown on all of the main display screens.

#### 3.1 UTC Time Display

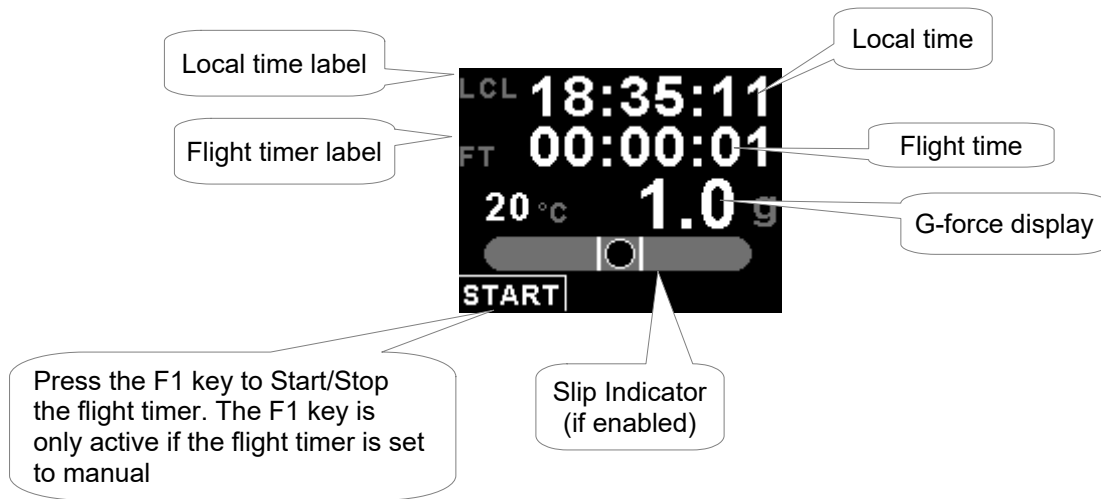


Slip Indicator disabled

Slip Indicator & OAT disabled



### 3.2 Flight Timer



**Slip Indicator disabled**



**Slip Indicator & OAT disabled**



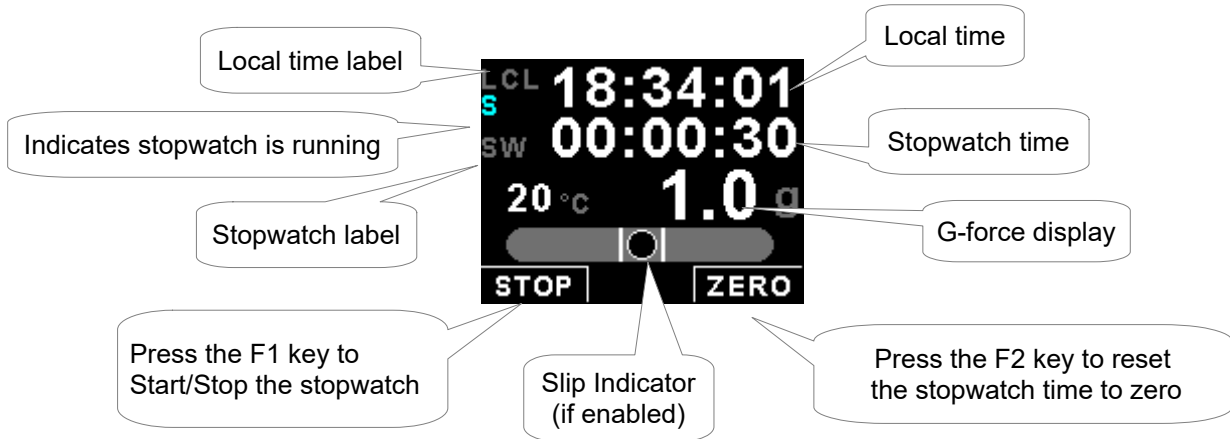
Press the F1 push button to start/stop the flight timer. This push button is only active if the flight timer is set to manual.

**Slip Indicator & OAT disabled, Flight Timer set for remote start/stop**



### 3.3 Stopwatch

The stopwatch can be started and stopped at any time and reset to zero.



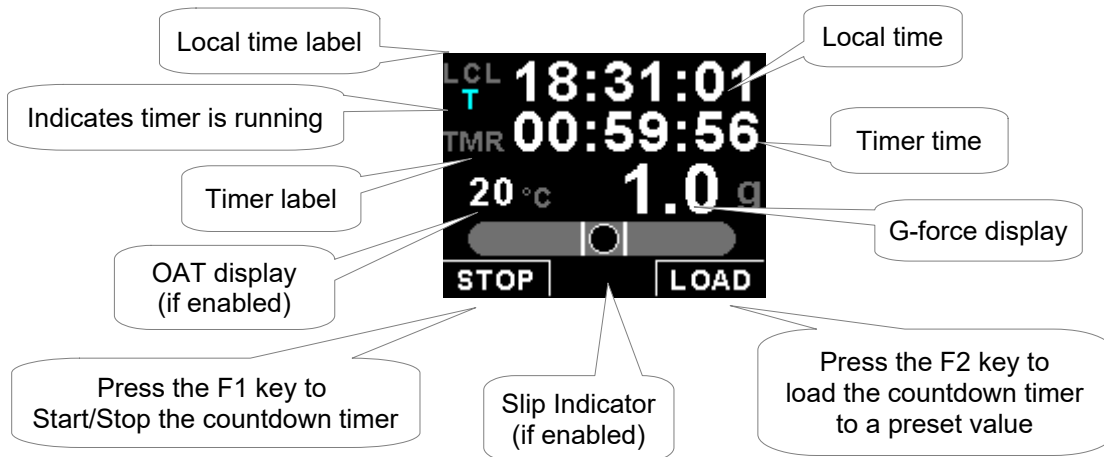
**Slip Indicator disabled**

**Slip Indicator & OAT disabled**



### 3.4 Countdown Timer

The countdown timer is loaded from a preset value. Once loaded, the timer can be started and counts down. It can be stopped and restarted at any time.



Press the F2 key to enter the set timer screen. Use the rotary control to set the countdown timer value. Press the F1 key to exit.

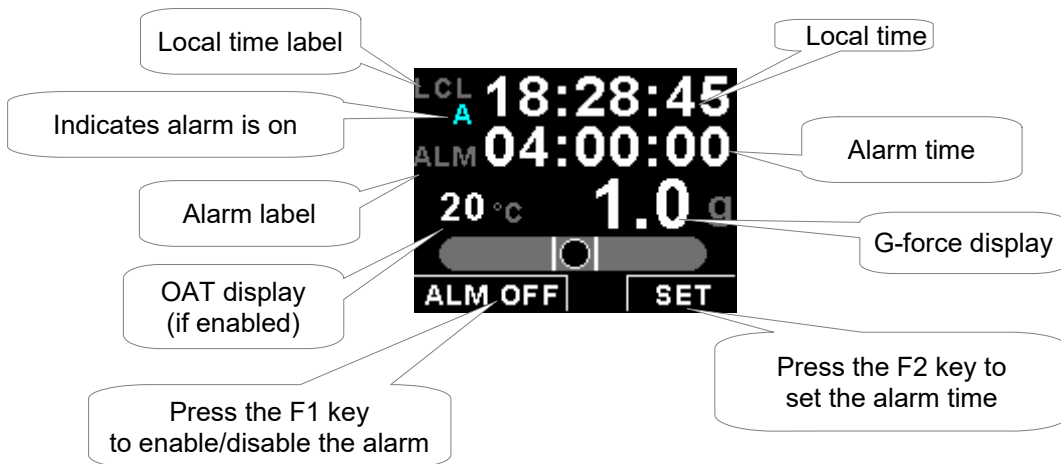
Slip Indicator disabled



Slip Indicator & OAT disabled



### 3.5 Alarm



Press the F2 key to enter the alarm setting screen as shown on the left. Use the rotary control to set the alarm time. Press the F1 key to exit.

Slip Indicator disabled



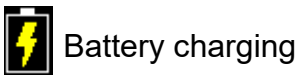
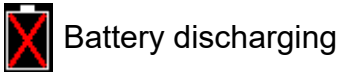
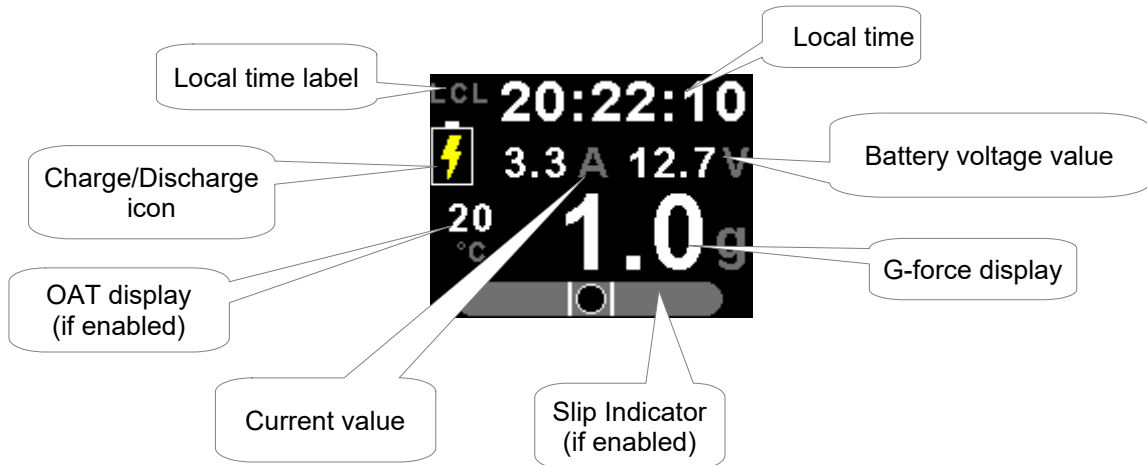
Slip Indicator & OAT disabled



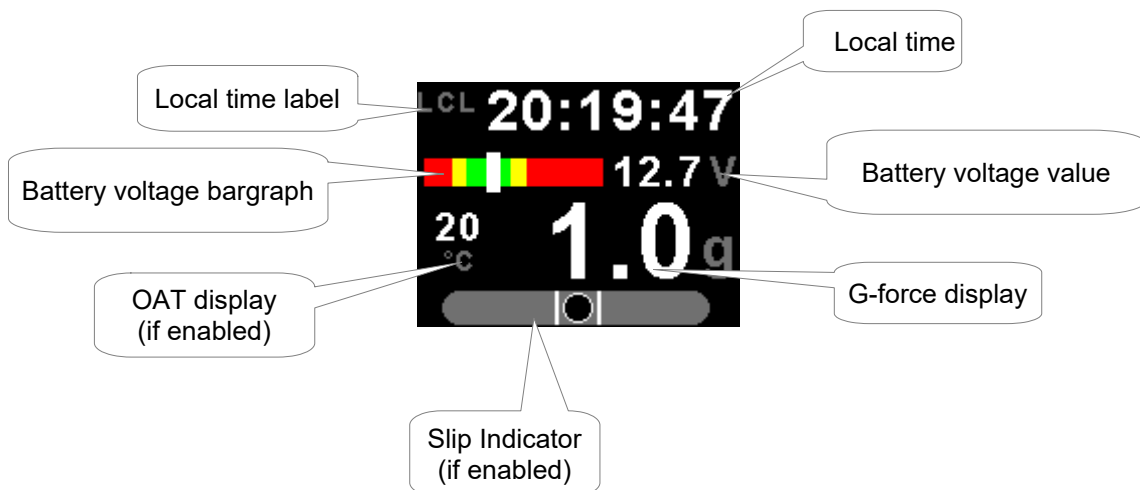
### 3.6 Battery Voltage / Current display

Both the battery voltage and current can be displayed. If the current measurement is disabled then the battery voltage will be shown with a bargraph.

#### Dual Mode (Both battery voltage and current shown)



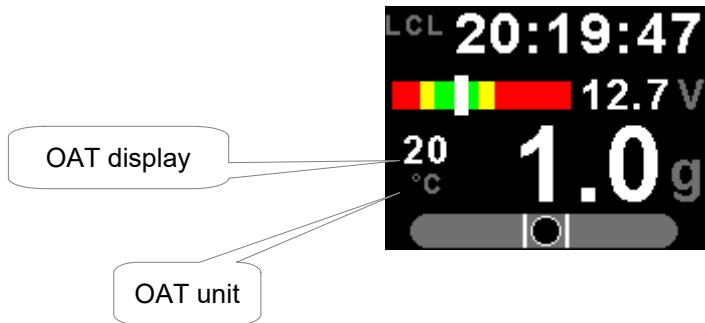
#### Battery Voltage only (Current measurement disabled)





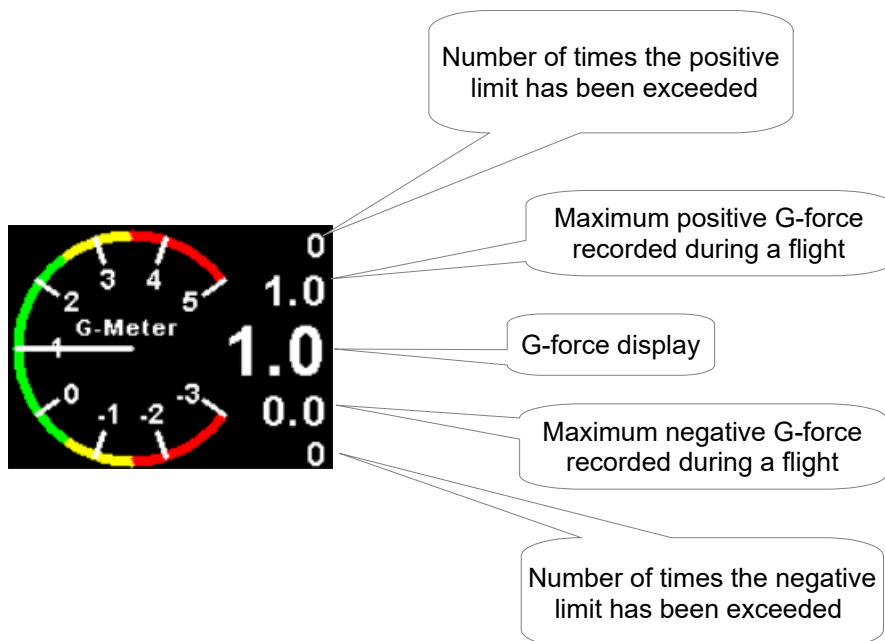
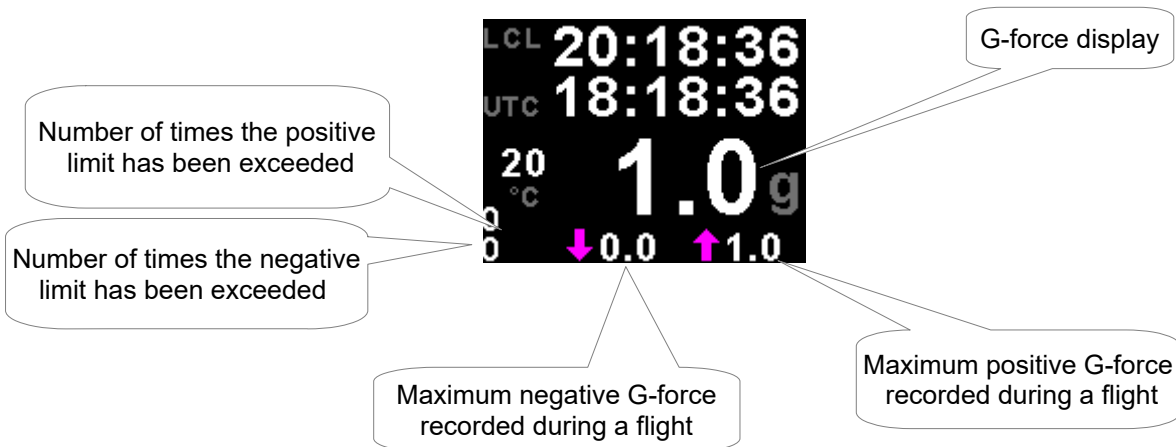
### 3.7 OAT (Outside Air Temperature)

The OAT display is shown on all the main displays. The OAT display can be disabled in the menu system.



### 3.8 G-force

The G-force display is shown on all the main displays. The cycle counter and the maximum/minimum values are only shown on certain displays.



### 3.9 GPS Viewer

```

UTC: 00:00:00
    0 JAN 0
N 00°00.000
E 000°00.000
MAG VAR (M): 0° E
SUNRISE: 05:40
SUNSET: 17:47 ACQ
  
```

```

LCL: 00:00:00
N 00°00.000
E 000°00.000
GPS ALT: ---- ft
SOG: 0 mph
COG: 0°M ACQ
  
```

These displays are active when a NMEA compatible GPS receiver is connected to the serial port.

The following GPS information is displayed:

- Time and date
- Latitude and Longitude
- Magnetic variation
- Sunrise and Sunset times
- GPS altitude
- SOG (Speed over ground)
- COG (course over ground)
- GPS fix

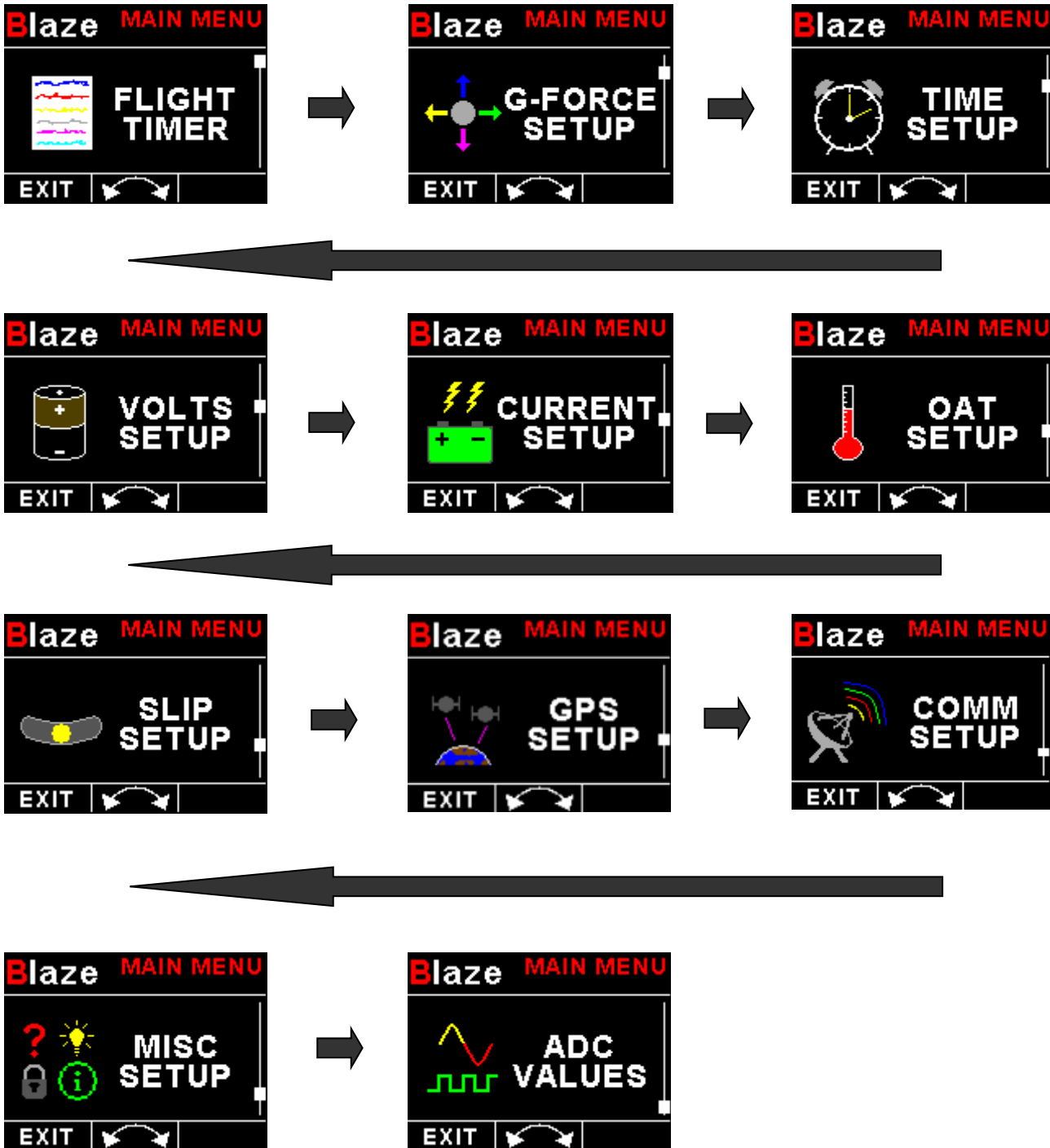
### 3.10 Maximum/Minimum Values display

MIN / MAX	
VOLTS:	13.1 / 13.9 V
GF:	0.2 / 1.0 g
OAT:	14 / 26 °C
AMPS:	-20 / 11 A
RESET	

Press the F1 key to reset the maximum and minimum values. If the security option has been enabled, then the correct security code will have to be entered before you will be able to reset the maximum and minimum values.

## 4 Menu System

Press the rotary control button during the normal display mode to enter the menu system. Use the rotary control to navigate through the menu system.



### 4.1 Exiting the menu system

Press the F1 button to exit the menu system when the "EXIT" soft key is shown. All changes made during navigation of the menu system will be saved in non-volatile memory upon exiting. The instrument will not save any changes if you remove power before exiting the menu system.

## 4.2 Flight Timer



### *View Flight Log:*



Use the rotary control to view the next flight log entry.

### *Erase Flight Log:*

Use this function to erase the flight log stored in the INFO-2.

### *FT Display:*

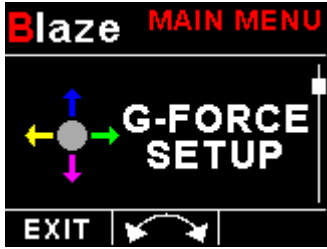
Select to enable or disable the flight timer display.

### *Flight:*

Select if you would like to start and stop a flight by pressing a front push button, or by using a digital input.

If the flight is set to "REMOTE" then the flight will only end after 30 seconds upon de-activation of the digital input. This ensures that touch-and-goes will not result in the end of a flight and a logbook entry.

## 4.3 G-Force Setup



### **Pos Alarm:**

Select if the G-force alarm must be activated on the positive high value or the positive caution value.

### **Pos High:**

This is the positive G-force high value. This is the start of the positive red section of the G-force indicator.

### **Pos Caution:**

This is the positive G-force caution value. This is the start of the positive yellow section of the G-force indicator.

### **Neg Alarm:**

Select if the G-force alarm must be activated on the negative high value or the negative caution value.

### **Neg High:**

This is the negative G-force high value. This is the start of the negative red section of the G-force indicator.

### **Neg Caution:**

This is the negative G-force caution value. This is the start of the negative yellow section of the G-force indicator.

### **Pos Cycle:**

Set the positive G-force limit above which the cycle counter should increment. This would typically be set to the maximum allowable G-force rating of your aircraft (positive G-force). The cycle count is retained if power is removed.

### **Neg Cycle:**

Set the negative G-force limit above which the cycle counter should increment. This would typically be set to the maximum allowable G-force rating of your aircraft (negative G-force). The cycle count is retained if power is removed.

### **Scale:**

Select the scale of the G-force graphic indicator.

## 4.4 Time Setup



### Set UTC Time:



This function is used to set the internal real time clock. The time to be entered must be UTC in order for the system to operate correctly. Do not enter local time (unless it is the same as UTC).

UTC is the same as Greenwich Mean Time (GMT) or Zulu time.

### UTC Offset:

Enter the UTC offset for your location. The UTC offset can be adjust in half an hour increments.

### UTC Display:

Select to enable or disable the UTC display.

### SW Display:

Select to enable or disable the stop watch display.

### TMR Display:

Select to enable or disable the countdown timer display.

### ALM Display:

Select to enable or disable the alarm display.

### RTC Trim:

This allows you to adjust a trimming factor that will increase the accuracy of the built in clock. Increasing the trim value will result in the slowing down of the time.

## 4.5 Volts Setup



### **Display Max:**

Select the maximum value that you want the volts bargraph to show. This can give you increased display resolution. The bargraph is only shown if the current display is disabled.

### **Display Min:**

Select the minimum value that you want the volts bargraph to show. This can give you increased display resolution. The bargraph is only shown if the current display is disabled.

### **High Alarm:**

This enables or disables the volts high alarm.

### **High Alarm:**

Enter the voltage threshold for when the high alarm must be activated. Any voltage above this value will activate the alarm.

### **High Caution:**

Enter the voltage for the high caution. This is the lower value of the upper yellow band.

### **Low Caution:**

Enter the voltage for the low caution. This is the upper value of the lower yellow band.

### **Low Alarm:**

This enables or disables the volts low alarm.

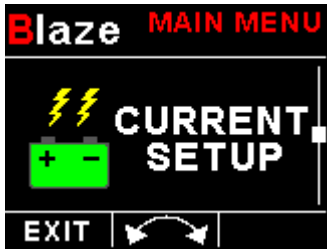
### **Low Alarm:**

Enter the voltage threshold for when the low alarm must be activated. Any voltage below this value will activate the alarm.

### **Cal:**

Measure the battery voltage with a multimeter and then adjust this value to match that of the multimeters volts reading.

## 4.6 Current Setup (MGL Avionics Magnetic Closed Loop current Sensor required)



### **Current Disp:**

Select to enable or disable the current display.

### **High Alarm:**

This enables or disables the current high alarm.

### **High Alarm:**

Enter the current threshold for when the high alarm must be activated. Any current above this value will activate the alarm.

### **High Caution:**

Enter the current value for the high caution.

### **Low Caution:**

Enter the current value for the low caution.

### **Low Alarm:**

This enables or disables the current low alarm.

### **Low Alarm:**

Enter the current threshold for when the low alarm must be activated. Any current below this value will activate the alarm.



**Zero Sensor:**

Select this function to indicate to the INFO-2 that zero current is flowing through the MGL Avionics Closed Loop Current sensor. This is best done with the MGL Closed Loop Current sensor disconnected from the main current supplying conductor.

**Gain:**

Adjust the gain factor until the current is reading correctly. It will be best if a multimeter can be inserted in series with the current supplying conductor and the gain calibration adjusted until the INFO-1 matches that of the multimeter. Please see the MGL Avionics Closed Loop Current Sensor documentation for more information.

## 4.7 OAT (Outside Air Temperature) Setup



### ***OAT Display:***

Select to enable or disable the OAT display.

### ***Temp Unit:***

Select whether you want the OAT to be displayed in degrees Celsius (°C) or in degrees Fahrenheit (°F).

### ***High Alarm:***

This enables or disables the OAT high alarm.

### ***High Alarm:***

Enter the temperature threshold for when the high alarm must be activated. Any temperature above this value will activate the alarm.

### ***High Caution:***

Enter the temperature for the high caution. This is the lower value of the upper yellow band.

### ***Low Caution:***

Enter the temperature for the low caution. This is the upper value of the lower yellow band.

### ***Low Alarm:***

This enables or disables the OAT low alarm.

### ***Low Alarm:***

Enter the temperature threshold for when the low alarm must be activated. Any temperature below this value will activate the alarm.

### ***OAT Cal:***

During the factory calibration a factor has been determined and entered here that will give you an accurate OAT reading. If you find this value is incorrect then adjust the calibration factor until the INFO-2 OAT matches that of a precision thermometer. Calibration can only be done in Celcius (°C).

## 4.8 Slip Setup



### ***Slip Display:***

Select if you would like to enable the slip indicator to be shown on the bottom of the display.

### ***Slip Sense:***

Select if you want the slip to have a high sensitivity or a low sensitivity setting.

### ***Slip Zero:***

This function allows you to set your slip indicator to exactly zero even if your aircraft tends to fly slightly wing down. The procedure is to place the aircraft in a stable, straight and level attitude during calm flight conditions and then select this function. To cancel the correction, place your sensor absolutely horizontal (use a spirit level) and select the function again.

## 4.9 GPS Setup



### ***GPS Display:***

Select to enable or disable the GPS display.

### ***NMEA Baud:***

Select the baud rate of the externally connected GPS receiver.

### ***Position:***

Select the display format of the GPS latitude and longitude.

### ***Altitude Unit:***

Select if you want the GPS altitude displayed in ft (feet) or m (meters).

### ***COG:***

Select if you want coarse over ground displayed as magnetic or true.

### ***Speed Unit:***

Select if you want the speed over ground to be displayed in mph (statute miles per hour), km/h (kilometers per hour) or knots (nautical miles per hour).

### ***UTC Offset:***

Enter the UTC offset for your location. The UTC offset can be adjusted in half an hour increments.

### ***Mag Var:***

Select manual or automatic magnetic variation. Automatic variation is only possible if using an external NMEA compatible GPS receiver.

### ***Variation:***

Enter the magnetic variation of your location. This is only used if you would like the instrument to display true heading. True heading is the heading relative to the geographic North Pole. Magnetic heading is the heading relative to the magnetic North Pole. Variation is expressed in degrees east or west. Please note that should you move a long distance, you may have to update the variation setting. This setting may be ignored if you only use the magnetic heading display option.

## 4.10 COMM Setup (Communication Setup)



### **Serial Out:**

Select "ON" to enable the RS232 serial output.

### **Unit Address:**

Enter the unit address.

### **Baud Rate:**

Select the desired baud rate of the serial output.

## 4.10.1 Protocol Format

### **STX, Address, Message type, Length, Data payload, Checksum, ETX**

STX: Start of text (0x02)

Address: unsigned char (8bit), Unit address (range 0-255)

Message Type: unsigned char (8bit), Specifies the message type

Length: unsigned char (8bit), Length of the data payload (does not include the STX, Address, message type, checksum or ETX)

Data payload: Data

Checksum: unsigned char (8bit), XOR of all bytes starting from the unit address to the end of the data payload. The checksum is seeded with 0xa5. (does not include the STX or ETX)

ETX: End of text (0x03)

## 4.10.2 Data payload

Message type=3

Data Length=12 bytes

Output Rate=10Hz

Local Time: Unsigned Long (32 bit), Time is seconds since 1 January 1970

G-Force: Signed Int (16 bit), G-Force in 0.1G

Volts: Unsigned Int (16 bits), Volts in 0.1V

Current: Signed Int (16 bits), Current in 0.1A

OAT: Signed Int (16 bit), OAT temperature in Degrees Celsius

### 4.11 MISC Setup (Miscellaneous Setup)



#### Backlight:



Select manual or automatic backlight control.

Use the rotary control in manual mode to adjust the backlight brightness.



Allow 3 seconds for the display to adjust to the ambient lighting conditions when using the automatic backlight mode. The display will set the backlight to the dim setting if the ambient light is less than the threshold setting, alternatively the display will set the backlight to the bright setting if the ambient light is greater than the threshold setting. The ambient light received is shown as the ADC value in the top header. Use this value to set the threshold value.

#### Security Setup:



Select this menu option if you want to password protect the menu system.

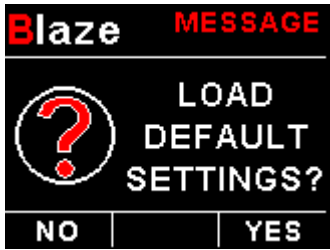


#### Information:



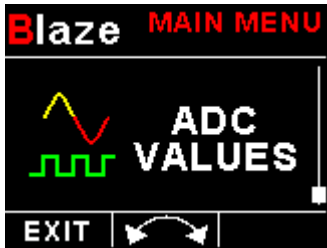
This menu option displays information about the unit.

**Default Settings:**



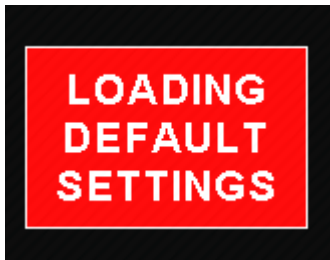
Select this menu option to reset all the settings to factory defaults.

**4.12 ADC Values**



This menu displays the ADC values from the various sensors.

**5 Loading factory default settings**



Press and hold the F1/Up button and rotary control during power up to load the pre-programmed factory default settings. The following screen will be displayed:

Factory default settings can also be loaded in the Miscellaneous setup menu.



## 6 Error Messages



**UNIT  
SETTINGS  
CRC ERROR**

Unit settings CRC error. Load default settings to restore to factory defaults. If the error message still persists then it could possibly be a non-volatile memory failure in which case the instrument will then have to be returned to the factory.



**INTERNAL  
FLASH  
CRC ERROR**  
UNIT:123456  
CODE:654321

Internal flash CRC error. The instrument does a firmware check on the program when power is applied to the instrument . If the program is corrupt in any way then the internal flash CRC error will be displayed. Reload the instruments firmware and load default settings. If the error message still persists then it could possibly be an internal flash memory failure in which case the instrument will then have to be returned to the factory.



**CALIBRATION  
CONSTANTS  
CRC ERROR**

Calibration constants CRC error. The instrument could possibly have a non-volatile memory failure in which case the instrument will then have to be returned to the factory.



**MAX VALUES  
CRC ERROR**

Max Values CRC error. Load default settings to restore to factory defaults. If the error message still persists then it could possibly be a non-volatile memory failure in which case the instrument will then have to be returned to the factory.

## 7 Specifications

<b>Operating Temperature Range</b>	-10°C to 60°C (14°F to 140°F)
<b>Storage Temperature Range</b>	-20°C to 80°C (-4°F to 176°F)
<b>Humidity</b>	<85% non-condensing
<b>Power Supply</b>	8 to 30Vdc SMPS (switch mode power supply) with built in 33V over voltage and reverse voltage protection
<b>Current Consumption</b>	Approx. 120mA @ 12V (backlight highest setting), 45mA @12V (backlight lowest setting)
<b>Display</b>	2.6" 320x240 IPS color LCD display Minimum 600cd/m2 brightness Sunlight readable with anti-glare coating LED Backlight can be set to automatic or can be manually adjusted
<b>Alarm Output</b>	Open collector transistor switch to ground Maximum rating 0.25A
<b>ADC</b>	12 bit
<b>Dimensions</b>	see Blaze series dimensional drawing
<b>Enclosure</b>	3 1/8" (80mm) ABS, black in color, front or rear mounting. Flame retardant.
<b>Weight</b>	Approx. 160 grams (Instrument excluding cables)
<b>Non-volatile memory storage</b>	100000 write cycles
<b>Voltage measurement range</b>	Up to 32Vdc
<b>Voltage resolution</b>	0.1V
<b>Current sensor supported</b>	MGL Avionics Magnetic Closed Loop Current Sensor
<b>G-force range</b>	+/-10g typical
<b>OAT Temperature Sender type</b>	Semiconductor LM335 (ON Semiconductor)
<b>Internal battery type</b>	CR2032
<b>NMEA Supported Message</b>	GPRMC (Recommended Minimum Sentence) GPGGA (Global Positioning System Fix Data) GPGSA (GPS DOP and active satellites) GPGSV (GPS Satellites in view)
<b>NMEA Supported Baud rate</b>	1200 to 115200

## 8 Operating the alarms

The alarm output can be used to switch an external alarm indicator. The external alarm switch is an open collector transistor switch to ground with a maximum rating of 0.25A DC. It is possible to wire the alarm contacts of several Stratomaster instruments in parallel should this be desired. To avoid false activation of the alarms, the alarm function is only active 10 seconds after the instrument has powered up.

## 9 Firmware Upgrading

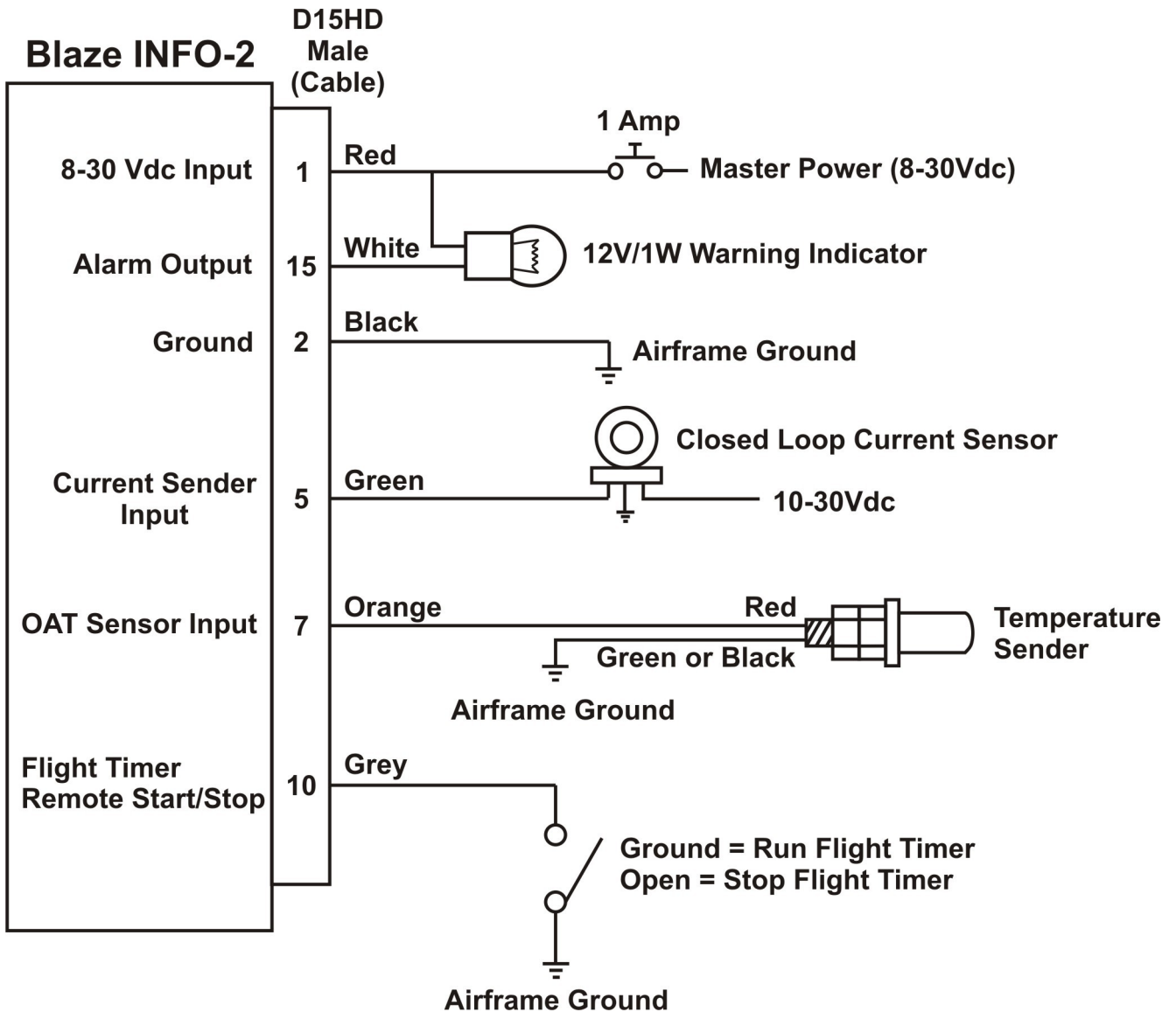
The INFO-2 can be upgraded in the field by connecting the RS232 port to a PC and running the firmware update program. **Note that only the RS232 port can be used to upgrade the firmware.**

**Please see the Blaze firmware upgrading document for more information.**

# 10 Installation

## 10.1 Connection Diagram

The use of an external 1A fuse is recommended. Connect the supply terminals to your aircrafts power supply. The INFO-2 can be used on both 12V and 24V without the use of any pre-regulators. Ensure that the supply voltage will not drop below 8V during operation as this may result in incorrect readings.



## 10.2 OAT Probe



Connect the OAT probe red wire to the INFO-2 temperature sensor input and the black or green wire to ground.

## 10.3 Closed Loop Current Sensor



The MGL Avionics magnetic closed loop current sensor provides a 0.5V to 4.5Vdc output voltage which is proportional to a 50A bi-directional input current.

Advantages of closed loop current sensors over conventional current measurements techniques is that they provide the highest accuracy, are ideal for noisy electrical environments and they provide complete electrical isolation from the current carrying conductor.

Please see the Closed Loop Current Sensor manual for connection information

## 10.4 Cable connections

### Main connector (D15HD connector: Unit Female, Cable Male)

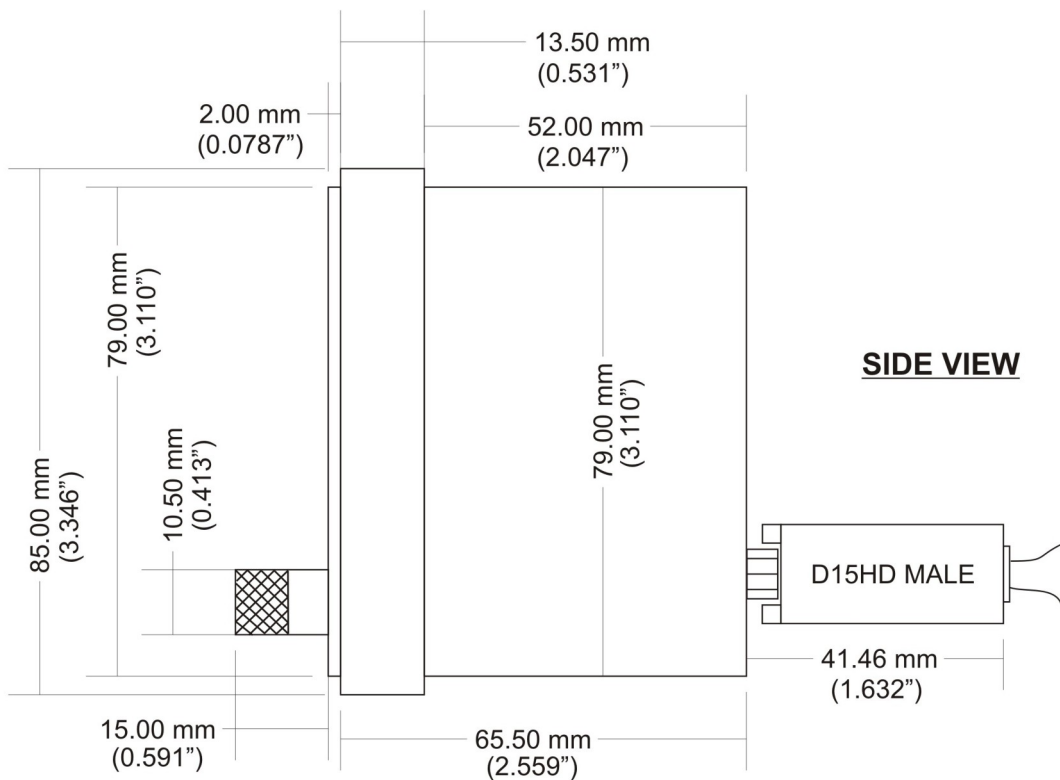
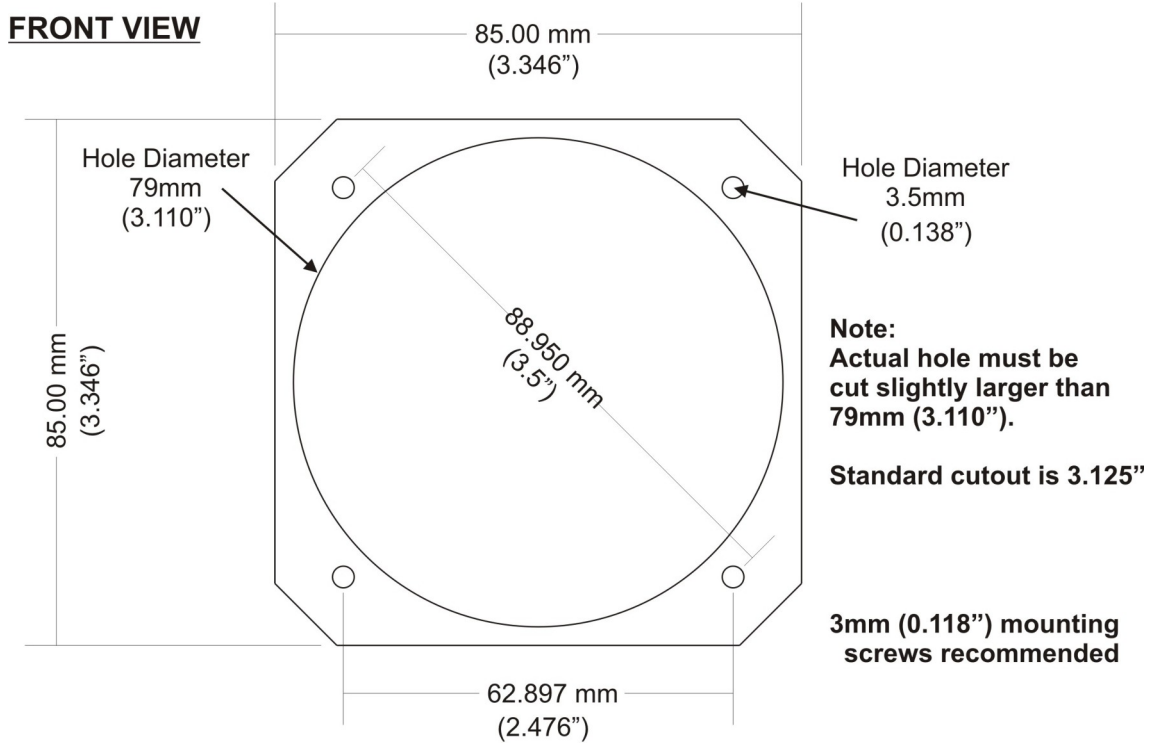
D15HD Pin	Wire Color	Function
1	Red	8-30Vdc power via power switch / circuit breaker and fuse.
2	Black	Ground. Connect the ground to the engine block, and the engine block to the battery negative. Do not connect the INFO-2 ground directly to the battery negative. This must be routed via the engine block.
3	-	RS232 Transmit data (Firmware upgrading)
4	-	RS232 Receive data (Firmware upgrading)
5	Green	Current sender input
7	Orange	OAT Sender input
10	Grey	Flight timer remote start/stop (Leave open if remote start stop not required) Low = Run flight timer Open = Stop flight timer
15	White	Alarm Output (Open collector)

## 11 Changing the internal battery

The INFO-2 uses an internal Lithium battery to supply power to run the internal clock. If you find the INFO-2 loses time when you switch off main power you should replace the battery. This battery is of type CR2032. It is used in many calculators and similar equipment and is easy to obtain. Remove the 2 securing nuts next to the D-15 connector and remove the unit from its enclosure. The battery holder is located on the circuit board behind the display. Observe correct polarity when installing a new battery. The side marked "+" will be viewable once the battery is inserted.

# 12 Dimensions

## Stratomaster Blaze 3.125" (80mm) Dimensions



## 13 Cleaning

The unit should not be cleaned with any abrasive substances. The screen is very sensitive to certain cleaning materials and should only be cleaned using a clean, damp cloth.

**Warning:** The INFO-2 is not waterproof, serious damage could occur if the unit is exposed to water and/or spray jets.

## 14 Warranty

This product carries a warranty for a period of one year from date of purchase against faulty workmanship or defective materials, provided there is no evidence that the unit has been mishandled or misused. Warranty is limited to the replacement of faulty components and includes the cost of labor. Shipping costs are for the account of the purchaser.

**Note:** Product warranty excludes damages caused by unprotected, unsuitable or incorrectly wired electrical supplies and or sensors, and damage caused by inductive loads.

## 15 Disclaimer

Operation of this instrument is the sole responsibility of the purchaser of the unit. The user must make themselves familiar with the operation of this instrument and the effect of any possible failure or malfunction.

This instrument is not certified by the FAA. Fitting of this instrument to certified aircraft is subject to the rules and conditions pertaining to such in your country. Please check with your local aviation authorities if in doubt. This instrument is intended for ultralight, microlight, home built and experimental aircraft. Operation of this instrument is the sole responsibility of the pilot in command (PIC) of the aircraft. This person must be proficient and carry a valid and relevant pilot's license. This person has to make themselves familiar with the operation of this instrument and the effect of any possible failure or malfunction. Under no circumstances does the manufacturer condone usage of this instrument for IFR flights.

### **IMPORTANT NOTICE:**

You must make your own determination if the products sold by MGL Avionics are safe and effective for your intended applications. MGL Avionics makes no representations or warranties as to either the suitability of any of the products we sell as to your particular application or the compatibility of any of the products we sell with other products you may buy from us or anywhere else, and we disclaim any warranties or representations that may otherwise arise by law. Also, we offer no specific advice on how to install any of the products we sell other than passing along anything that may have been provided to us by the manufacturer or other issues. If you are in need of further information or guidance, please turn to the manufacturer, FAA Advisory Circulars and guidance materials, the Experimental Aircraft Association, or other reputable sources.

**Continuing development sometimes necessitates specification changes without notice.**

## Other instruments in the *Stratomaster Blaze* series

<b>AHRS-2</b>	Artificial Horizon and Magnetic Compass Indicator
<b>AHRS-4</b>	Self contained Artificial Horizon and Magnetic Compass Indicator
<b>ALT-6</b>	Altimeter and Vertical Speed Indicator (VSI)
<b>ALT-7</b>	Altimeter and Vertical Speed Indicator (VSI) with a transponder compatible RS232 & parallel Gillham code output
<b>ASI-5</b>	Airspeed Indicator (ASI)
<b>ASV-2</b>	Altimeter, Airspeed (ASI) and Vertical Speed Indicator (VSI)
<b>EMS-2</b>	Engine Monitoring System
<b>FF-5</b>	Fuel Computer
<b>FLIGHT-3</b>	Primary Flight Instrument
<b>INFO-2</b>	Information Display (G-Force meter, UTC and Local Time, Slip Indicator, Outside Air Temperature (OAT), Battery Voltage, Current and charge display, Flight Timer & Flight Log, Stopwatch, Countdown Timer and Alarm)
<b>MAG-2</b>	Magnetic Compass Indicator
<b>MAP-4</b>	Manifold Pressure and RPM Indicator
<b>RPM-2</b>	Universal Engine / Rotor RPM Indicator
<b>TC-5</b>	4 Channel Thermocouple (EGT/CHT) Indicator
<b>TC-6</b>	12 Channel Thermocouple (EGT/CHT) Indicator
<b>TP-4</b>	4 Channel Universal Analog Input (Pressure/Temperature/Current/Volts) Indicator