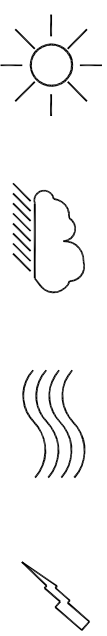


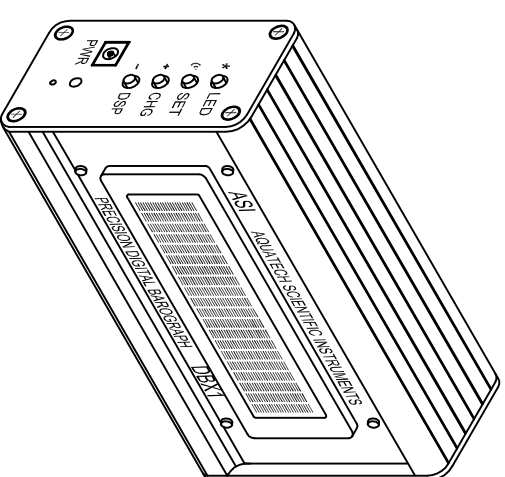
# DBX1 MANUAL

PRECISION DIGITAL BAROGRAPH

**FIRMWARE VERSION 3.60**



*"Feel the pressure!"*

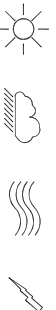


inHg and mb

## IMPORTANT !

BATTERIES ARE ALREADY INSTALLED !  
PRESS AND HOLD THE "DSP" BUTTON UNTIL THE SCREEN TURNS ON.  
BATTERIES ARE ON STANDBY WHEN UNIT IS PLUGGED IN.

# DBX1 DIGITAL BAROGRAPH TO THE XTREME



REV 1.0

## INTRODUCTION

THANK YOU FOR PURCHASING THE DBX1 PRECISION DIGITAL BAROGRAPH.

Please read through this entire manual to become familiar with this unit's functions. If you have any questions, please contact us. \*See page 18 for contact information.

The DBX1 is a precision digital barometer. The DBX1's intended use is to detect changes in atmospheric pressure. No other use is described.

AQUATECH SCIENTIFIC INSTRUMENTS LLC (ASI) has had an outside independent laboratory test a sample set of our units for accuracy. (ASI) in no event will be liable for direct, indirect, special, incidental or consequential damages resulting from a defect in the unit.

No part of this manual may be reproduced in any form, or by any means, without permission in writing from (ASI), except for your personal use with this product.

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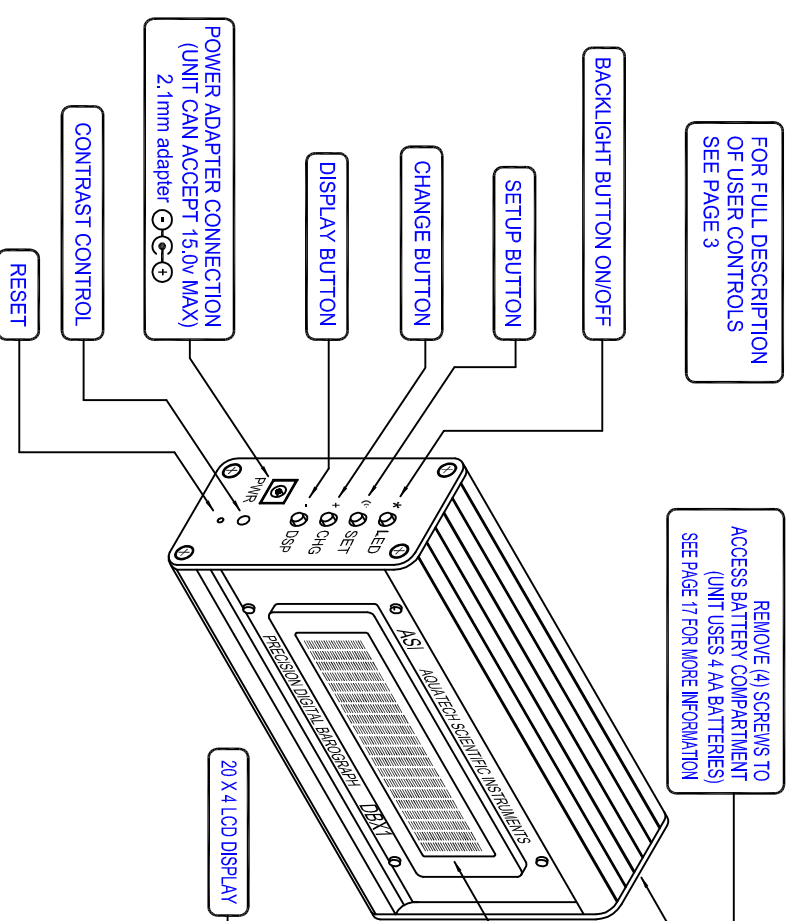
Copyright 2011 by AQUATECH SCIENTIFIC INSTRUMENTS LLC

See warranty information on page 18 of this manual.

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## DBX1 UNIT OVERVIEW



Batteries are already installed. To access them remove the right side cover. When your unit is plugged in, the batteries are on standby and are not used. The unit does not recharge the batteries.

**Marine craft users, the DBX1 unit can accept up to 15.0 volts.**

The DBX1 unit works directly with 12v power systems. No voltage conversion is required.

(Replace batteries every 3 months in a marine environment.)

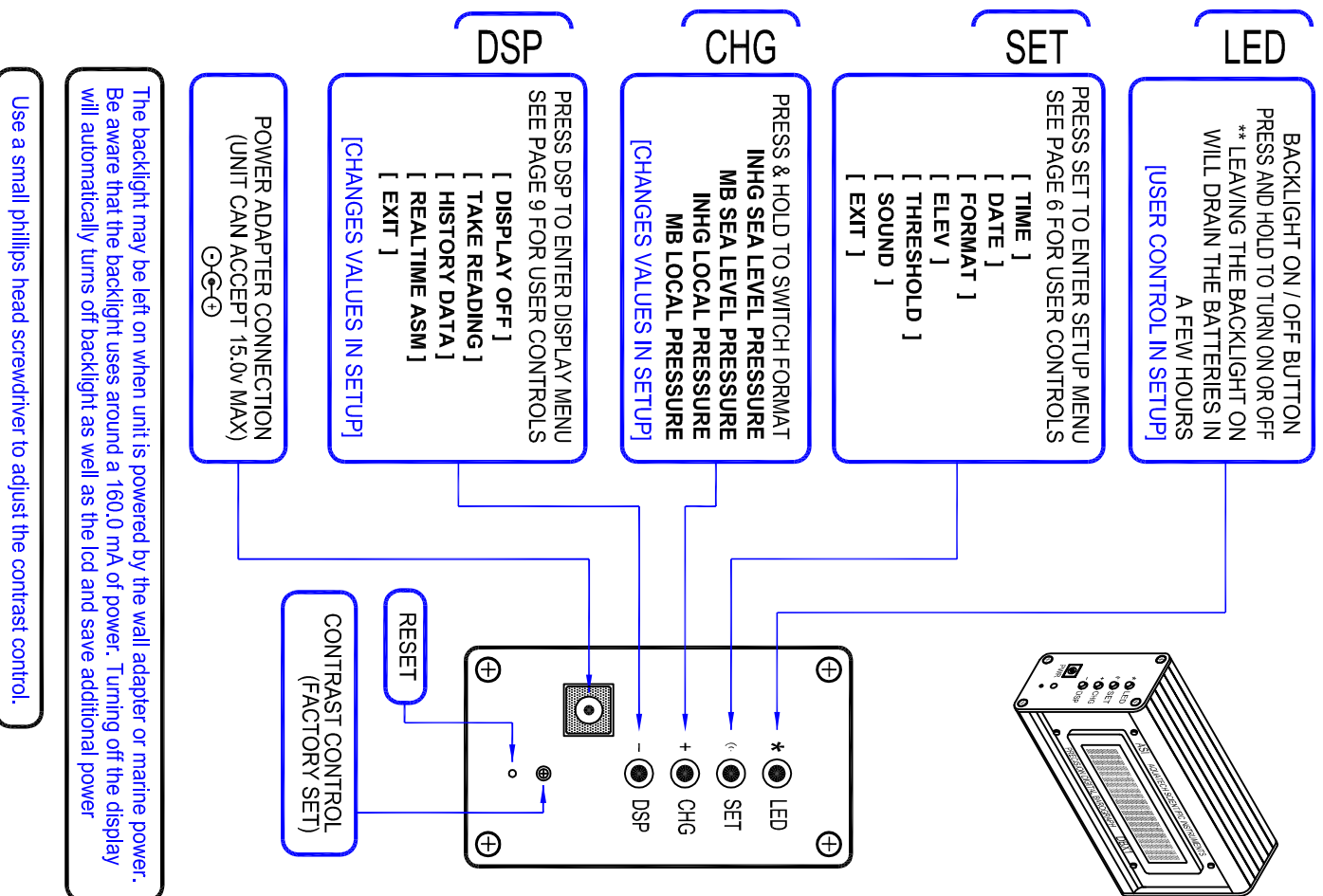
Use a 2.1mm female power adapter to connect to your power system. See the mounting option on page 16.

### **POWER CONSUMPTION:**

5.0 mA @ 5.0 volts in standard operation mode.

160.0 mA @ 5.0 volts in standard operation mode with LED backlight on.

## DBX1 CONTROL OVERVIEW



The backlight may be left on when unit is powered by the wall adapter or marine power. Be aware that the backlight uses around a 160.0 mA of power. Turning off the display will automatically turns off backlight as well as the lcd and save additional power

Use a small philips head screwdriver to adjust the contrast control.

## DBX1 UNIT SETUP

1. Unpack the DBX1 Digital Barograph and accessories.
2. Plug the DBX1 in with the provided AC/DC wall adapter.
3. Press and hold the "DSP" button until the display turns on.
4. Please read the information below before proceeding to page 5.

### WHAT IS SEA LEVEL PRESSURE? (SLP)

Barometers are usually setup for SEA level pressure. SEA level pressure is the actual LOCAL air pressure at your elevation, plus the additional air pressure below your elevation down to sea level. All world pressure maps use this format. By adjusting your pressure to SEA level, you can easily compare your pressure reading with other locations around the world. The DBX1 uses an ELEVATION value to adjust the SLP. See detail on page 5.

To set your SEA level pressure, you only need to know your elevation above sea level. You can also set the unit with a known oreasure. For example, if the local news reports your reading as 29.87 inhg, that is the SEA level value. Simply adjust the ELEVATION until SEA reads that known value.

### WHAT IS LOCAL PRESSURE? (LP)

The LOCAL pressure is the actual air pressure at your elevation. The DBX1 is calibrated to read the actual LOCAL pressure. Local pressure is generally used in the research, automotive, medical fields, testing laboratories, manufacturing, etc.

### THRESHOLD ALERT T

The Threshold alert allows the user to set a pre-determined pressure that when reached will signal an audible and visual alarm. To clear alerts see display options on page 9.

### DBX1 GRAPH

When first setup the 1-Day and 5-Day graph will show only one bar on the right side of the screen. The 1 day graph will add a bar every hour and the 5 day graph will add a bar every 6 hours.

### DBX1 CONTROLS

At anytime in normal operating mode you can:

Press "LED" to turn the backlight on or off.

Press "SET" to access setup functions.

Press "CHG" to switch between inhg and mb formats.

Press "DSP" to access display functions.

## SEA LEVEL PRESSURE

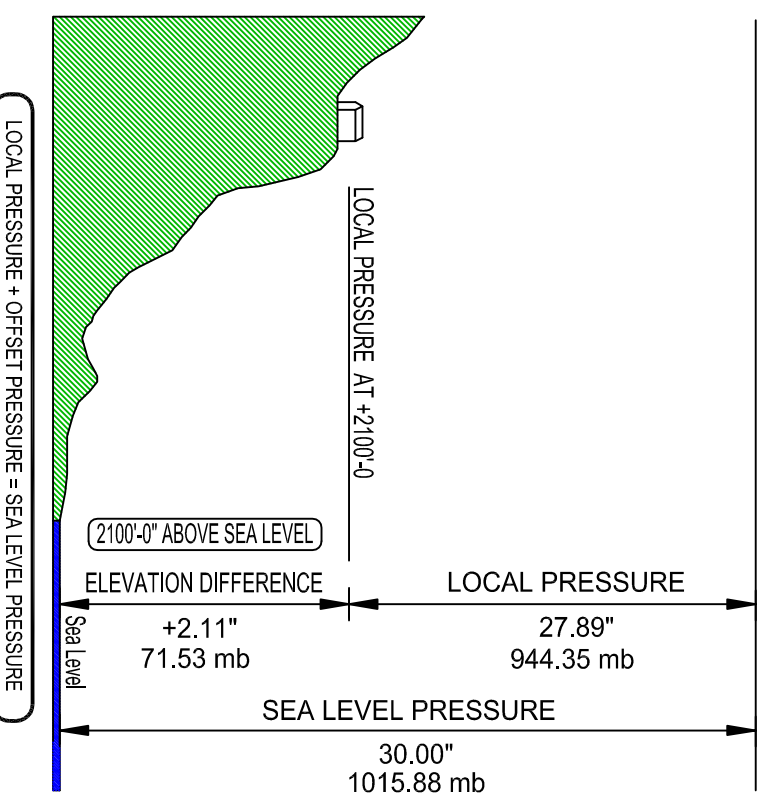
### HOW TO SET YOUR SEA LEVEL PRESSURE

To set your SEA LEVEL PRESSURE you only need to know your elevation above sea level. You can determine your elevation through a mobile phone with GPS capabilities or you can use a program such as google earth to pin down your elevation. Then simply enter this elevation as FEET in the DBX1 setup.

You can change to any of the below format when not in setup mode. Simply press and hold the "CHG" button to select format:

INHG SEA LEVEL PRESSURE  
MB SEA LEVEL PRESSURE  
INHG LOCAL PRESSURE  
MB LOCAL PRESSURE

TOP OF ATMOSPHERE



## DBX1 SYSTEM SETUP

### SET MENU

[ EXIT ]  
[ TIME ]  
[ DATE ]  
[ FORMAT ]  
[ ELEV ]  
[ THRESHOLD ]  
[ SOUND ]

PRESS "SET" TO ENTER SETUP MENU  
PRESS "CHG" TO SELECT MENU OPTION  
PRESS "SET" TO EDIT MENU OPTION  
TO EXIT SETUP MENU SELECT "EXIT" AND  
PRESS "SET", THE SYSTEM WILL THEN  
RESUME NORMAL OPERATING MODE.

TIME

\*\*\* SETUP MODE \*\*\*  
CURRENT TIME

± 12:08 pm

SET

BUTTON FUNCTION

+ Increases field value

- Decreases field value

\* Changes field location

SET Returns to the setup menu

DATE

\*\*\* SETUP MODE \*\*\*  
CURRENT DATE

± 05 / 08 / 10

SET

BUTTON FUNCTION

+ Increases field value

- Decreases field value

\* Changes field location

SET Returns to the setup menu

FORMAT

ENTER FORMAT  
[ inHg ]

SET


BUTTON FUNCTION

CHG Select format inHg, mb, mmHg


SET Returns to the setup menu

## DBX1 SYSTEM SETUP

To calculate your SEA level pressure see page 5. You can also set the SEA level pressure to a known source, such as the weather channel, local news, or the internet. These sources report their reading as SEA level pressure. The "LOCAL" pressure is the actual "SENSOR" pressure. The initial system OFFSET value is +0.00. Your LOCAL and SEA pressure are equal when your OFFSET = +0.00.

<b>PRESSURE</b>	<b>LOCAL: 30.160"</b> <small>***</small> <b>ELEV: +00030 FT</b> <b>SEA: 30.192"</b> <small>..</small>	
<b>INHG</b>		
 <b>SET</b>	BUTTON	FUNCTION
	+	Increases field value
	-	Decreases field value
	*	Changes field location
SET	Returns to the display menu	


Important: Your offset value will always be positive if you live at or above sea level. You can change your offset to a negative offset value if you live below sea level.

<b>PRESSURE</b>	<b>LOCAL: 1021.26</b> <small>***</small> <b>ELEV: +00030 FT</b> <b>SEA: 1022.34</b> <small>..</small>	
<b>MB</b>		
 <b>SET</b>	BUTTON	FUNCTION
	+	Increases field value
	-	Decreases field value
	*	Changes field location
SET	Returns to the display menu	


After you setup your DBX1 unit the first time with the correct pressure, record your OFFSET PRESSURE for later use. You can use this OFFSET to reset your unit without knowing the pressure, as long as your unit's altitude has not changed.

Important: You can display either the LOCAL or SEA level pressure on the DBX1. Pressing the CHG button when you are in normal operating mode will switch between values.

## DBX1 SYSTEM SETUP

<b>THRESHOLD</b>	<b>** SETUP MODE **</b> <b>THRESHOLD ALERT</b> <b>.. [ 2950 ] in</b>	
 <b>SET</b>	BUTTON	FUNCTION
	+	Increases field value
	-	Decreases field value
	*	Changes field location
SET	Returns to setup menu	

The Threshold alert allows the user to set a pre-determined pressure that when reached will signal an audible and visual alarm. To clear alerts see display options on page 10.

<b>SOUND</b>	<b>** SETUP MODE **</b> <b>SOUND</b> <b>[ ON ]</b>	
 <b>SET</b>	BUTTON	FUNCTION
	CHG	Select sound ON or OFF
	SET	Returns to setup menu

Turns off all audible sounds. It is recommended that the audible sounds be turn on when adjusting the unit. This allows the user clear audio / visual cues when pressing buttons.

The DBX1's data is cleared when you change the pressure. You can view the pressure and offset without clearing data as long as you do not change the offset value. All other setup functions will not affect the pressure data.



## DBX1 DISPLAY OPTIONS

### DSP MENU

[ DISPLAY OFF ]  
[ TAKE READING ]  
[ HISTORY DATA ]  
[ REALTIME ASM ]  
[ EXIT ]

PRESS "DSP" TO ENTER DISPLAY MENU  
PRESS "CHG" TO SELECT MENU OPTION  
PRESS "DSP" TO SELECT MENU OPTION  
TO EXIT DISPLAY MENU SELECT "EXIT"  
PRESS "DSP" AND THE SYSTEM WILL THEN  
RESUME NORMAL OPERATING MODE.

### TAKE READING

Reads current pressure and clears warning messages and threshold alert if active.

### HISTORY

**\* PRESSURE HISTORY \***  
01 May08 12:00 1021  
02 May08 11:00 1020  
03 May08 10:00 1019

### SET

BUTTON	FUNCTION
DSP	Pause and resume scrolling Displays 48 hourly records

Important: The HISTORY DATA function will scroll through 48 hours of SEA LEVEL pressure data. You can pause and resume at any time by pressing the "DSP" button.

### REALTIME

**\*\* REALTIME ASM \*\***  
**SENSOR: 1012.75**

### SET

BUTTON	FUNCTION
DSP	Press DSP to return to the Display Menu, then EXIT

Important: REALTIME ASM ( active sample mode ) samples the air pressure every 10 seconds. If you wish to display the actual SENSOR pressure, make sure that LOCAL mode is selected by pressing and holding the CHG button.  
Note: REALTIME ASM allows you to display SEA level pressure. This is the SENSOR pressure including the SEA level OFFSET. All data and graph information is still recorded in this mode. Active sample mode requires more battery power. To Exit press & hold DSP to return to the Display menu then select exit.

## DBX1 DISPLAY OVERVIEW

(SCREENS ARE DISPLAYED IN THE FOLLOWING ORDER)

### MAIN SCREEN 1 DAY INFORMATION

#### SHOWING INHG FORMAT

SEA LEVEL PRESSURE IS SHOWN  
↑ RISING  
↓ FALLING S=STEADY  
CURRENT STATE  
CURRENT READING  
TIME AND DATE  
1 DAY LOW/HIGH READINGS  
1 AND 3 HOUR PRESSURE CHANGE  
Pressure: 29.963"  
10:21 pm Oct 21  
Lo: 29.46 Hi: 30.24  
T 1H: +0.06 3H: +0.10

WARNINGS ARE SHOWN ON THE LAST LINE  
(WITH AUDIBLE ALERTS)  
(TAKE A REALTIME READING TO CLEAR MESSAGES)  
THE "T" MEANS THE THRESHOLD ALERT IS ACTIVE

**\*\* RAPID RISE ALERT \*\***  
**\*\* WIND WARNING \*\***  
**\*\* STORM WATCH \*\***  
**\*\* HURRICANE \*\***

The 5 DAY HIGH / LOW readings are based on a 5 minute sample rate. Taking a real-time reading is also considered as a sample. Based on SEA level data.

### 1 DAY ICON

[1 DAY BAROGRAPH]

The 1 DAY GRAPH measures a total of 0.48 inHg, 16.2 mb, 16.2 hPa of change.

CURRENT READING  
Each single bar equals (0.02 inHg ), (0.68 mb ), (0.68 hPa)  
Each double bar equals (0.04 inHg ), (1.35 mb ), (1.35 hPa)  
1 HOUR RECORDS (Recorded each hour)

### MAIN SCREEN 5-DAY INFORMATION

#### SHOWING MB FORMAT

LOCAL PRESSURE IS SHOWN  
↑ RISING  
↓ FALLING S=STEADY  
CURRENT STATE  
CURRENT READING  
Tendency: Change  
Lo: 1011 Hi: 1029  
T 6H: +0.12 12H: +0.18  
5 DAY LOW/HIGH READINGS  
6 AND 12 HOUR PRESSURE CHANGE  
CURRENT READING  
PREDICTION  
CLEAR  
DRY  
FAIR  
CHANGE  
PRECIP  
STORMY  
CYCLONE

WARNINGS ARE SHOWN ON THE LAST LINE  
(WITH AUDIBLE WARNINGS)  
(TAKE A REALTIME READING TO CLEAR MESSAGES)  
THE "T" MEANS THE THRESHOLD ALERT IS ACTIVE

The tendency prediction is only an indication that conditions are favorable for the current weather prediction and does not mean that they are imminent.

The 5 DAY HIGH / LOW readings are based on a 5 minute sample rate. Taking a real-time reading is also considered as a sample. Based on SEA level data.

### 5 DAY ICON

[5 DAY BAROGRAPH]

The 5 DAY GRAPH measures a total of 1.44 inHg, 48.0 mb, 48.0 hPa of change.

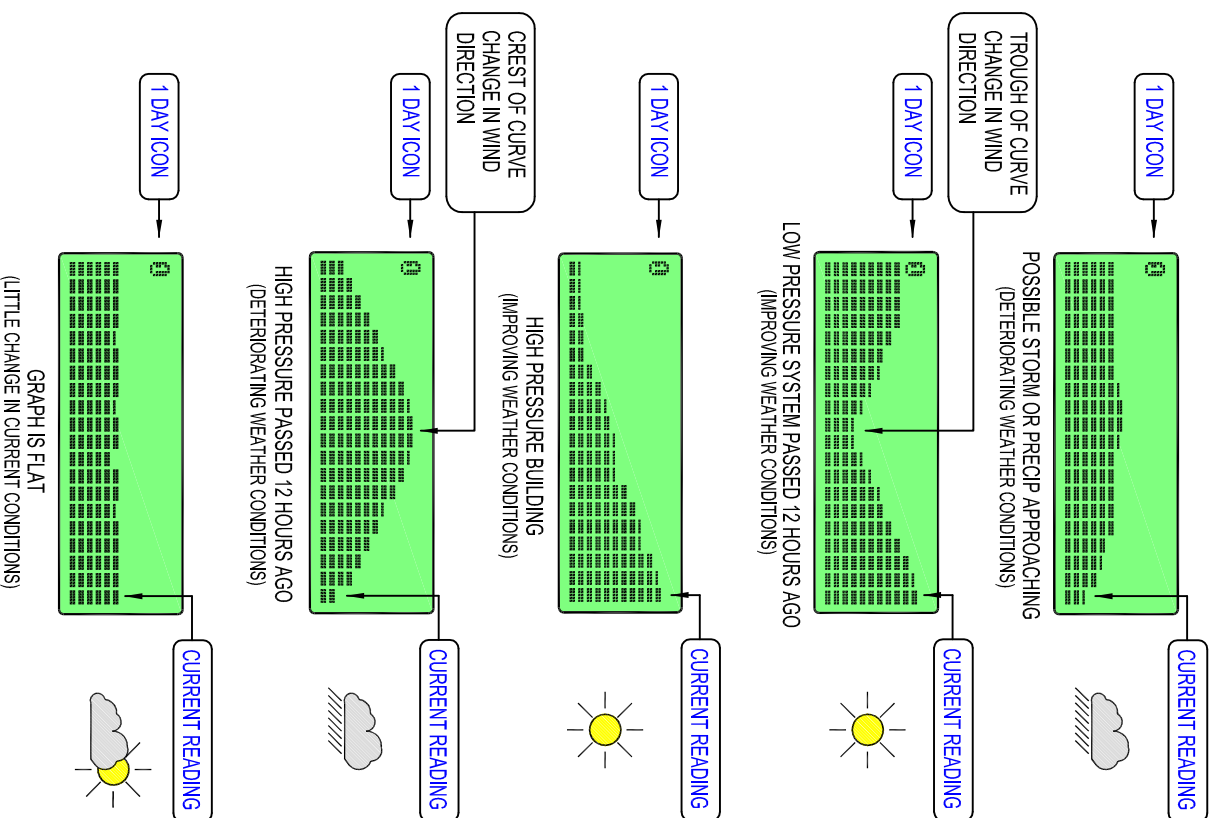
CURRENT READING  
Each single bar equals (0.06 inHg ), (2.0 mb ), (2.0 hPa)  
Each double bar equals (0.12 inHg ), (4.0 mb ), (4.0 hPa)  
6 HOUR RECORDS (Recorded every 6 hours)

The screen rotates every 5 seconds.

The pressure is read every 5 minutes based on the time clock.  
The pressure is recorded on the hour based on the time clock.

## DBX1 - WEATHER FORECAST

1 DAY GRAPH ( 20 HOURLY RECORDS )



## FREQUENTLY ASKED QUESTIONS

### **WHEN FIRST SET, WHY DOES THE 1 DAY AND 5 DAY GRAPH ONLY DISPLAY ONE BAR?**

The barograph does not have any data yet. The 1 day graph will show a new bar each hour until the whole screen is full. The 5 Day graph will show a new bar every 6 hours until the whole screen is full. The right most bar is the current pressure reading. See page 10 for record sequence.

### **WILL THE DBX1 RETAIN ITS SETTINGS WHEN CHANGING THE BATTERIES?**

Yes, if you have the unit plugged in and you remove the batteries, the unit will retain its information.

### **HOW LONG WILL THE BATTERIES LAST?**

That depends, if the unit is plugged in or is hardwired they will last for over a year. If the unit is on battery power alone they will last for about a month. This does not account for using the backlight.

### **WHAT IS THE MAXIMUM DC INPUT VOLTAGE?**

The unit can handle a maximum of 15.0 volts. It was designed to work with marine power systems.

### **HOW IS A SYSTEM FIRMWARE UPDATE DONE?**

There are 2 ways we offer this service:  
We can send you a firmware update chip with installation instructions or you can send the unit to us and we will update your system and ship it back.

## CARE AND MAINTENANCE












Clean the case with a soft damp cloth. Use a mild water and soap solution and dry thoroughly. Clean the LCD screen with a soft damp cloth and let air dry . Use water only. Do not use Windex or cleaning solutions.

There are no user repairable parts. Please contact (ASI) if you are experiencing any problems with your DBX1 barograph.

DBX1 TERMS AND DEFINITIONS

- ACCURACY:** Refers to how far from the true pressure the unit will deviate.
- SENSITIVITY:** Refers to the smallest pressure change the unit can detect.
- RESOLUTION:** Refers to how many decimal places that each format will display.
- LOCAL PRESSURE:** The actual air pressure read by the DBX1, not offset to sea level pressure (relative pressure). Local Pressure is also know as Station Pressure. See Page 5 for more information.
- OFFSET PRESSURE:** The pressure difference between SEA level pressure and your LOCAL pressure. See Page 5 for more information.
- SEA LEVEL PRESSURE:** Local air pressure calculated to sea level pressure. You use the ELEV adjustment to change you sea level pressure. This allows you to compare your values with other stations around the world. All pressure maps are based on sea level pressure also know as relative pressure. See Page 5 for more information.
- THRESHOLD ALERT:** A user set value that will sound an audible and visual alert when the air pressure drops below that user set value.
- ASL:** Above Sea Level.
- inhg:** English Format. Inches of mercury. The standard U.S. format.
- mb / hPa:** Metric format. Millibars / Hectopascal used outside the U.S.
- mmHg:** Metric format. Millimeters of mercury. Used in the medical field.
- NIST:** National Institute for Standards and Technology.
- FIRMWARE:** The DBX1's upgradable operating system.

DBX1 ICONS AND SYMBOLS

-  = SEA LEVEL PRESSURE IS DISPLAYED
-  = LOCAL PRESSURE IS DISPLAYED
-  = ONE DAY INFORMATION
-  = FIVE DAY INFORMATION
-  = AUDIBLE ALERT IS ON
-  = AUDIBLE ALERT IS OFF
-  = MILLIBAR FORMAT
-  = RISING PRESSURE
-  = FALLING PRESSURE
-  = USE THE PLUS OR MINUS TO ADJUST VALUE
-  = FIELD SECTION ARROW

DBX1 SPECIFICATIONS

Barograph Pressure sensor	A piezoresistive transducer (state of the art monolithic silicon pressure sensor). On Chip Signal Conditioned, Temperature Compensated 2.5% Maximum Error over 0 to 85°C, and Calibrated. Sensor range: (2.2 to 16.7 Psi), (15 to 115 kPa.) (150 to 1150 mb/hPa.), (4.43 to 33.96 inhg.). Settable application range (406 to 1134 mb/hPa.), (12.00 to 33.50 inhg.). The actual intended application range is from 26.00 - 31.00 inhg, 880 - 1050mb/hPa and 660 - 787mmhg.
Accuracy	Barograph Precision ±0.25 mb/hPa. and ±0.007 inhg. for NIST units. NIST testing range is from 26.00 - 31.00 inhg, 880 - 1050mb/hPa and 660 - 787mmhg. Accuracy may vary outside this range.
Sensitivity	Barograph Sensitivity 0.100 mb/hPa. and 0.003 inhg.
Resolution	Barograph Resolution 0.01 mb/hPa. and 0.001 inhg.
Pressure format	mb (millibars) hPa or inhg (Inches of mercury), LOCAL and SEA
Time	12 hour time format with records stored in 24 hour format.
Date	Date function with records stored in mm/dd/yy.
History Review	48 hours history review shown as: [REC] [DATE] [TIME] [PRES]
Realtime asm	Active Sample Mode - samples the air pressure every 10 seconds
Altitude	Barograph operates at altitudes up to 12,000 ft / 3658 meters.
Microcontroller	AVR risc processor running @ 1 mhz. 32k Flash memory. Upgradedadeable Firmware. Built in 6 pin "ISP" in system programming.
Barograph Display	20x4 column green transfective LED backlit LCD display. User adjustable contrast control. Backlight ON/OFF control.
Barograph Display Information	Current Pressure, [1] Day high and low pressure, [5] Day high and low pressure, Tendency, Warning messages and rate of rise and fall. Pressure Change showing: 1, 3, 6, and 12 hour pressure differences. Time and Date. History review showing 48 hours of data.
Barograph Display Graphing	1 Day bargraph and 5 Day bargraph.
Barograph Controls	4 Control buttons with multiple functions. LED backlight control, SET, CHG, DSP (Display control). Contrast control. Sound on/off control. format control (inhg/mb format). Real-time reading control. Set Threshold Alert and Clear warning message control.
Alerts and Warnings	Audible Barograph alert at 85db with on/off control. Automatic audible alert on large drop detect with warning messages. User settable drop threshold alert. For example, a user could set an audible alert if the pressure falls below 29.60 inhg.
Barograph Power	Includes one A/C power adapter with 9v output and 2.1mm female connector. Includes 4 AA backup batteries and battery holder. It can run up to one month on batteries depending on usage can handle up to 15 volts. Power Adapters available for U.K., Europe & Australia.

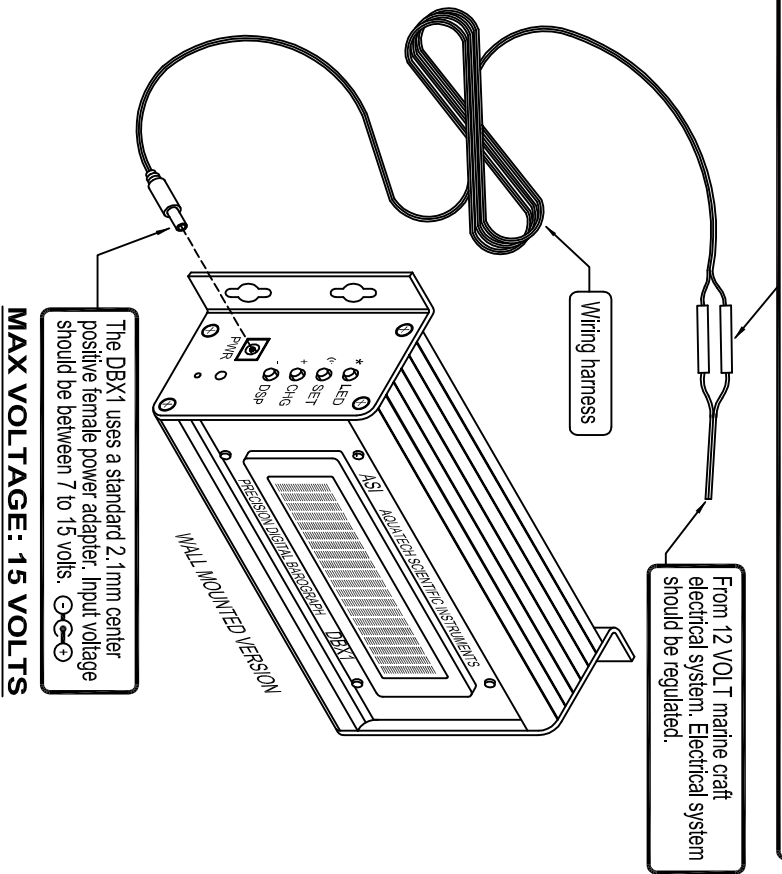


# DBX1 WIRING HARNESS DIAGRAM

## WIRING INSTRUCTIONS

Important: Always follow your local marine electrical code when wiring your unit.

Turn off the maine craft's electrical system. Unscrew and remove batteries from right side of DBX1. Cut wires and slide heat shrink tubes over each wire. Splice and twist wire, matching positive and negative. Turn on marine power and test unit then turn off marine power. Solder wires and heat shrink the tubing in place with a heat gun. Turn on maine power, test unit again, then re-install batteries. Mount unit as desired.



## NOTES:

The DBX1 unit works directly with 12v Marine craft power systems. The DBX1 can handle external power in the range between 7 to 15 volts. The DBX1 will switch to battery power if the external power goes below 7 volts. (Replace batteries every 3 months in a marine environment.) Use a 2.1mm female power adapter to connect to your power system.

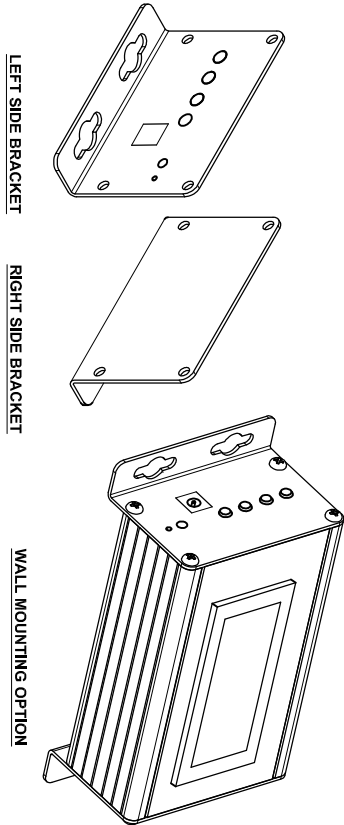
## POWER CONSUMPTION:

5.0 mA @ 5.0 volts in standard operation mode.  
160.0 mA @ 5.0 volts in standard operation mode with LED backlight on.

# DBX1 ACCESSORIES

## DBX1 WALL MOUNTING KIT SOLD SEPARATELY

(See website for pricing.)



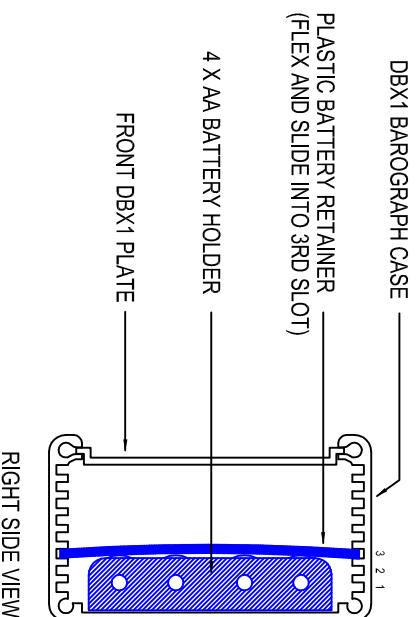
AC/DC POWER ADAPTER TYPE				
U.S.	U.K.	EUROPEAN	AUSTRALIA	
	- -	• •	/ /	

Item No.	Description
P0001	FIRMWARE UPGRADE KIT WITH INSTRUCTIONS
P0002	DBX1 WALL MOUNTING KIT INCLUDES 2 BRACKETS
P0003	DBX1 MOBILE 12 VOLT CAR POWER ADAPTER
P0004	DBX1 WIRING HARNESS FOR USE WITH MARINE 12V POWER
P0005	DBX1 US 2.1MM POWER WALL ADAPTER
P0006	DBX1 UK 2.1MM POWER WALL ADAPTER
P0007	DBX1 EURO 2.1MM POWER WALL ADAPTER
P0008	DBX1 AUS 2.1MM POWER WALL ADAPTER
P0009	DBX1 4XAA BATTERY HOLDER WITH CONNECTOR
P0010	DBX1 PLASTIC BATTERY RETAINER

See Website for latest pricing!

## DBX1 BATTERY ACCESS

To access the batteries, remove the (4) screws from the right side of the DBX1 unit. Grasp the battery holder and slide out with the plastic battery retainer. Change batteries then put the battery holder back in place. Next, flex plastic battery retainer and slide into the 3rd slot on the DBX1 case as shown.



## DBX1 TROUBLE SHOOTING

Your DBX1 unit should run continuously for months without any issues. Still, there are a few situations that can cause the DBX1 to lock-up or appear to lock-up. Here are the main causes:

1. Low battery power.
2. A fluctuating a/c power supply.
3. A bad wall power adapter.

### **QUICK STEPS TO RESOLVE YOUR ISSUE:**

**Problem:** The unit is unresponsive or the LCD displays 2 initialization bars.

**Solution 1:** Press and hold the display button "DSP" until the screen re-initializes. ( You will not lose any settings or data and unit should run normally )

**Solution 2:** Reset your unit using a paper clip through the small bottom hole on the left side of the unit. See Page 2. ( Settings and data will be lost )

**Solution 3:** Check and replace batteries if necessary.  
( Settings and data will be lost )

**Tip:** Please make sure that the DBX1 is plugged into a surge suppressor.

If this does not resolve your problem please email: [TECHNICAL\\_SUPPORT](mailto:TECHNICAL_SUPPORT@digitalbarograph.com).

## WARRANTY AND CONTACT INFORMATION

Please see the website for additional information, including (FAQs) Frequently Asked Questions and Adobe PDF documents before contacting technical support.

### **ASI LIMITED WARRANTY:**

1 Year Limited Warranty from date of purchase.

AQUATECH SCIENTIFIC INSTRUMENTS LLC warrants this unit to be free from defects in materials and workmanship under normal consumer usage for the period outlined.

### **COMPANY INFORMATION:**

AQUATECH SCIENTIFIC INSTRUMENTS LLC  
680 HEACOCK RD SUITE 204  
YARDLEY PA. 19067

PHONE: 215-428-9400  
FAX: 267-790-0404

### **WEB:**

[www.digitalbarograph.com](http://www.digitalbarograph.com)

### **TECH SUPPORT:**

email: [support@digitalbarograph.com](mailto:support@digitalbarograph.com)

### **SALES:**

email: [sales@digitalbarograph.com](mailto:sales@digitalbarograph.com)