

WARRANTY

General warrants this unit to be free from manufacturing defects for a period of one year from date of purchase. Any tampering with the unit or it's circuitry will void the warranty.

HEAT INDEX

The heat index was developed by the National Weather Service to help people avoid heat illness. Prolonged exposure and/or physical activity at a high heat index is likely to lead to sun stroke, heat cramps, heat exhaustion and even death in susceptible individuals. There are many factors that need to be considered when determining heat index. Besides temperature and humidity one must also take into consideration vapor pressure, effective wind speed, dimensions of a human body, internal body temperature, fluid intake and the sweating rate of a human. Please be aware that heat index is not an exact science. The values reached are only approximations. Ultimately, the final decision of whether or not to exercise belongs to the individual, athletic trainer or sports management. For additional information on heat index please consult the Center for Disease Control and Prevention, the American Red Cross or the National Weather Service

DISCLAIMER

This unit is a precautionary device to warn of severely hot and humid conditions. General recommends that each athlete consult their physician prior to strenuous exercise in extremely hot and humid conditions. General accepts no responsibility for prior health conditions. Good judgement should be used in extreme weather conditions to remove athletes from the practice field to an indoor facility with air-conditioning.

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FOR ALL YOUR MEASUREMENT REQUIREMENTS

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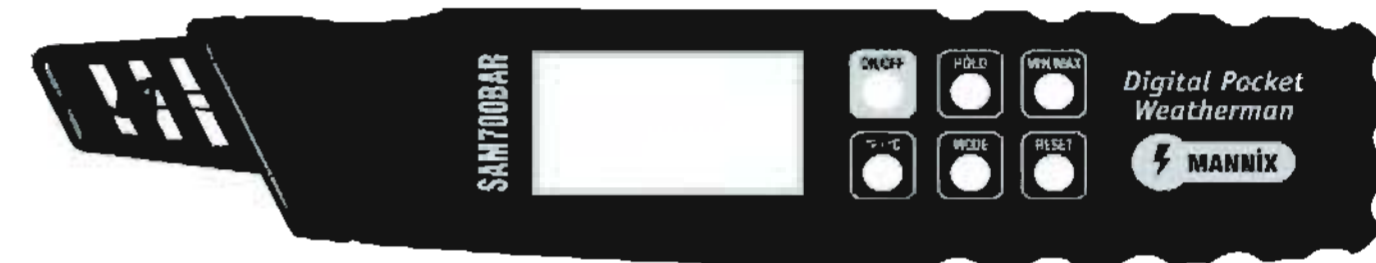
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OPERATING INSTRUCTIONS

DIGITAL POCKET WEATHERMAN

Model SAM700BAR

GENERAL®



Displays:

- BAROMETRIC PRESSURE
- TEMPERATURE
- HUMIDITY
- HEAT INDEX
- DEW POINT

All in One Handy, Pocket Sized Meter

INSIST ON GENERAL MONITORING PRODUCTS

OPERATING INSTRUCTIONS

-Turn the meter on by pressing the ON/OFF button. The LCD will show a full display of all measurement modes.

-After 1 or two seconds the SAM700BAR will simultaneously display the last mode of operation. The standard display is barometric pressure on the top of the LCD and temperature below.

MODE FUNCTION

-The mode button changes what is displayed on the LCD. Temperature is constantly displayed at the bottom of the LCD. The measurement on the top of the display will cycle like this: Barometric pressure --> Humidity --> Dew Point --> Heat Index --> Barometric pressure ...

UNIT FUNCTION

-To change from imperial to metric settings press the UNIT key. The temperature, heat index and dew point will change from Fahrenheit to Centigrade (°F to °C). Barometric pressure will change from inches of Mercury to millibars (inHg to mbar).

DATA HOLD FUNCTION

-Press and hold the HOLD button to freeze the current reading on the display. "Hold" will appear on the upper, right side of the LCD. The current reading is now being held and will not change until the hold function is cancelled.

-To cancel this function press and hold the HOLD button until "Hold" disappears from the LCD.

MIN/MAX FUNCTION

-The min/max function will display the minimum and maximum values recorded by the meter for all measurement modes since it was powered on or since the RESET button has been pressed.

-Press and hold the MIN/MAX button until "MAX" appears on the bottom of the LCD. The display is now showing the maximum value recorded.

-Press the MIN/MAX button again until "MIN" appears on the LCD. The display is now showing the minimum value recorded.

-To return to current readings press and hold the MIN/MAX button again.

-To clear the minimum and maximum from the memory press the RESET button until the entire display flashes.

HUMIDITY & DEW POINT FUNCTIONS

-Press the MODE button until "HEAT IDX" will disappear from the display and be replaced by "%RH". The unit will now show relative humidity on the top of the LCD and temperature below.

-Press and hold the MODE button again until "DP" appears on the display. The unit will now display dew point temperature on the top of the LCD and ambient temperature below.

-To exit the humidity & dew point function press and hold the MODE button until "HEAT IDX" appears on the display again.

CALIBRATION

When you receive your new SAM700BAR it will be pre-programmed to display a "DANGER" icon at a heat index value of 82°F. To change the point at which the unit will alarm follow these steps:

HEAT INDEX:

-While the unit is off press and hold the ON/OFF button until the top value, "HEAT IDX" and °F are flashing. Next press the UNIT button to decrease the value or MODE to increase it. To save the changes you have made press the HOLD button.

*Please note any heat index value over 80° is dangerous!

BAROMETRIC PRESSURE:

-Press HOLD key while in HEAT INDEX calibration mode

-The unit will display current pressure and flash 'BAR'

-Press UNIT key to go down one unit

-Press MODE key to go up one unit

-Press HOLD key to save settings

DANGER ZONE

-Based on a calculation of ambient temperature and relative humidity, the SAM700BAR will indicate extreme levels of heat index. The LCD will show a blinking DANGER. This indicates that your current environment may not be safe for athletic activity. Please take the necessary precautions to safeguard personal health and well-being.

LOW BATTERY INDICATOR

-Low battery indication is signaled by flashing of the entire display. This means you must replace the battery at once. Failure to do so will effect the unit's accuracy. When replacing the battery be sure to touch all metal contacts with the fresh battery. Replacement batteries should be ordered through Mannix, model CR2032.

AUTO POWER OFF FUNCTION

-The unit will automatically shut off after a period of 20 minutes of inactivity to conserve battery life. This is called sleep mode.

-To override the auto power off (non-sleep mode) press the HOLD button while the unit is off. Next press the ON/OFF button. When the LCD displays "n" release the HOLD button. The unit will now remain on until you manually turn it off.

CERTIFICATION

-Should you require a certificate to verify that the SAM700BAR meets its stated specifications you may send the unit back to us and we will issue an N.I.S.T. traceable certificate for an additional fee. Please contact us with any questions regarding certification.

NOTES

-Remember, low batteries will give inaccurate readings so be sure to keep your battery fresh.

-Condensations will not affect the meters accuracy.

CAUTION

-Do not immerse probe into liquids as this will cause permanent damage to the sensor and void the warranty.

SPECIFICATIONS

-Measures:	Barometric pressure, heat index, temp., humidity and dew point
-Features:	Danger icon, data hold, min/max and auto off
-Barometric pressure range:	8.86 to 32.48 inHg (300 to 1100hPa)
-Barometric pressure accuracy:	±1% FS
-Heat index range:	70° to 151°F (21° to 66°C)
-Heat index accuracy:	±3%
-Temperature range:	-4°F to 158°F (-20°C to 70°C)
-Temperature accuracy:	±2°F (±1°C)
-Humidity range:	0 to 100% RH
-Humidity accuracy:	±3% RH at 77° from 10 to 90% RH, ±4% RH all other ranges
-Dew point range:	-31° to 138°F (-35° to 59°C)
-Dew point accuracy:	±3%
-Resolution:	0.1°, 0.1% RH, 0.01 inHg
-Response time:	2 sec. approx (15 seconds for RH)
-Dimensions:	6.7" x 1.87" x 0.5" (168 x 47 x 15 mm)
-Power source:	1 "CR2032" battery (included)