

**Paroscientific Model 760-16B Portable Pressure Standard**General

This note provides users of the Paroscientific portable pressure standard Model 760-16B, P/N 1107-101, with information on the pressure meter readout and the battery circuit. Much of the information in this note is not in the Paroscientific instruction manual.

Procedure

The Paroscientific Model 760-16B portable pressure standard incorporates a 6-volt, 3-ampere-hour sealed lead acid battery for portable operation. Listed below are battery circuit characteristics.

1. A nominal charge for the battery is 6.3 to 6.7 volts.
2. The expected life of the battery is 100 hours between changes.
3. A low battery voltage (5.1 volts) is indicated by decimals being placed after each numeric digit being displayed.

Example of a good reading 14.4567 psi.

Example of low voltage display reading 1.4.4.5.6.7.

## CAUTION

Do not use the portable pressure standard when the low battery indicator is on. You may continue to take readings if the portable pressure standard is plugged into an AC power outlet. The battery will charge at the same time.

4. The Model 760-16B portable pressure standard charges at a controlled rate up to 180 Ma. A partially discharged battery (5.1 volt low battery) will take approximately 6 to 8 hours to reach full charge.
5. A fully discharged battery (0 to 3 volts) may not recover when charged. If the battery will not accept a charge, return the portable pressure standard to the pressure laboratory at:

National Weather Service  
1325 East-West Highway  
Silver Spring, MD 20910  
Room 2378 Attn: Bernard Morningstar

6. The charging circuit is on when the portable pressure standard is plugged into an AC power outlet. The ON/OFF switch does not have to be on.
7. The LCD power on sequence with a fully charged battery will go through a stage where all LCD segments are ON (8.8:8.8:8.8), then OFF -----, then the pressure reading.
8. The front panel ZERO switch is actually a mathematical TARE switch. This means a software zero will be set for the portable pressure standard. When switched ON, it reads the pressure displayed and subtracts that amount from subsequent measurement. The display will then indicate the difference from the original value. When the ZERO switch is switched OFF this function is disabled.

Effect on Other Instructions

None.

J. Michael St. Clair  
Chief, Engineering Division

W/OS0321: BGM: smo: 12/16/92rev. 3/1/93: sol  
EHB11 disk, "MAINT5. H11"  
WP5.1 speller