ASOS MAINTENANCE NOTE 12 (for Electronics Technicians)
Engineering Division
W/OSO321:PT/BGM

Alternative Battery Check Procedure for the Liquid Precipitation Accumulation Sensor (LPAS)

GENERAL

Currently, the LPAS battery is checked by measuring the current through the Fiberoptic Transmitter (see the ASOS Site Technical Manual, Table 10.5.2, Step 3.) A measurement of less than 8 mA signifies a bad battery. However, some digital multimeters (DMM) have current measurement resolution of 10 mA only. Therefore, measurement of less than 8 mA is impossible. This note describes an alternative LPAS battery check procedure using voltage measurement.

PROCEDURE

Make the following pen-and-ink change to the ASOS Site Technical Manual:

> Add step: 3a. Alternatively, place the DMM leads (in voltage mode) across the 100 ohm resistor located beside the battery. Short the reed switch or mercury switch and read the voltage on the DMM. Replace the Fiberoptic Transmitter A2A2A1 if the voltage reading is below 800 mV.

EFFECT ON OTHER INSTRUCTIONS

ASOS Site Technical Manual, Page 10-20, Table 10.5.2.

Original Signed

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WP 51: ASOSMN12.H11, EHB-11d disk
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