

Pressure Sensor Maintenance Check

GENERAL

The reporting of pressure data is critical to aircraft safety. This maintenance note addresses the remote possibility of erroneous pressure readings from system pressure sensors. When all system pressure sensors (two each for Class I and three each for Class II systems) report the same pressure value, the ASOS data quality algorithm cannot detect an error.

This note provides information and instructions for checking the ASOS pressure sensor plastic tubing after **any** maintenance action on or near the pressure sensor mounting shelf.

PROCEDURE

After **any** maintenance action in the area of the pressure sensors in the Acquisition Control Unit (ACU), check and verify that no sharp bends, cuts, kinks, pinches, or obstructions exist in the tubing. The vent located in the ACU on the I/O connector panel (1A9) must be checked for crimps, cuts, pinches, or obstructions.

Verify the pressure sensor data by comparing sensor output data shown on the **SENSOR** status page at the Operator Interface Device (OID) against the portable pressure standard.

Verify the portable pressure standard monthly.

Adhere strictly to the ASOS Site Technical Manual S100, Chapter 8, Section V when performing any corrective or preventative maintenance. Reference ASOS Maintenance Note 5 for information about the Paroscientific Model 760-16B Portable Pressure Standard.

EFFECT ON OTHER INSTRUCTIONS

None.

J. Michael St. Clair
Chief, Engineering Division

W/OSO321:BGMcCormick:rhz:4/16/93:disk EHB 10,11,12