



TELEDYNE RD INSTRUMENTS

A Teledyne Technologies Company
9855 Businesspark Avenue
San Diego CA 92131

ADCP Calibration Statement

All WorkHorse (WH), Ocean Surveyor (OS), and Ocean Observer (OO) ADCPs are tested to confirm that they meet our velocity accuracy specifications. Where applicable, the beam correction matrix is modified to achieve this result. The test we perform compares the velocity scale factor of the particular system to that of a known, calibrated, reference system at various approved locations on lakes local to the San Diego area.

The reference system is a WH 600kHz ADCP that has been modified to have a larger Janus beam angle as well as smaller beam widths, both of which increases its accuracy. It is periodically calibrated on a local lake by our engineers using differential GPS and a calibrated speed of sound sensor. The GPS provides highly accurate velocity and distance traveled information while the speed of sound sensor provides the correct speed of sound for computations made by the reference system. A series of tests are done to ensure that the reference system is significantly more accurate than the required accuracy of any of our ADCP systems.

To insure that the calibration of the reference system does not change without our knowledge, we calibrate another WorkHorse system (1200kHz) using the reference system. We periodically (at least twice each year) repeat this calibration and verify that there is no significant change. If we suspect a change in the reference system or modifications are made to it, we repeat the calibration using the GPS procedure.

Date: 3May2006