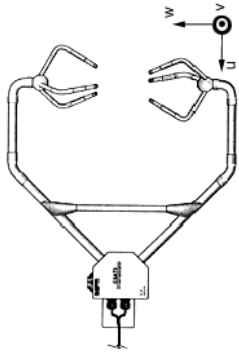
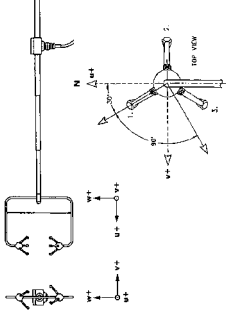
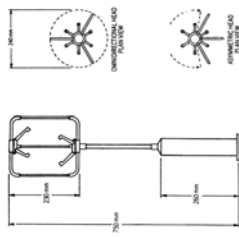
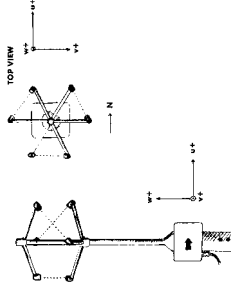


Sensor	Head Geometry	Specification	North Definition	Data Coordinate System
Campbell CSAT 3 Campbell Scientific, Inc.		3-axis anemometer-thermometer 116 mm path length 60 Hz internal sampling rate 20 Hz data output rate No analog inputs RS 232 and analog output	Sonic North (0°) points from the fixing/spar in direction to the sensor head	right handed u+ axis points toward 180° (sonic S) v+ axis points toward 90° (sonic E) w+ axis points upward
Gill HS Gill Instruments, Ltd.		3-axis anemometer-thermometer 153 mm path length 100 Hz internal sampling rate 20 Hz data output rate 6 analog inputs (100 Hz) RS 232 and analog output	Sonic North (0°) points along the spar in direction to the sensor head “spar alignment” (along spar) u+ axis points toward 0° (sonic N) v+ axis points toward 270° (sonic W) w+ axis points upward “axis alignment” (along transducer 1) u+ axis points toward 330° v+ axis points toward 240°	right handed “spar alignment” (along spar) u+ axis points toward 0° (sonic N) v+ axis points toward 270° (sonic W) w+ axis points upward “axis alignment” (along transducer 1) u+ axis points toward 330° v+ axis points toward 240°
Gill R2 Gill Instruments, Ltd.		3-axis anemometer-thermometer 147 mm path length 166.6 Hz internal sampling rate 20.8 Hz data output rate 5 analog inputs (10 Hz) RS 232 and analog output	Sonic North (0°) points in direction of the indicated North-arrow on the top of the instrument.	left handed u+ axis points toward 150° v+ axis points toward 240° w+ axis points upward
METEK USA-1 METEK Meteorologische Messtechnik GmbH		3-axis anemometer-thermometer 180 mm path length 100 Hz internal sampling rate 10/20 Hz data output rate 0/4 analog inputs RS 232 output	Sonic North (0°) points in direction of the indicated North-arrow on the side of the electronic box.	left handed with no azimuth specified: u+ axis points toward 0° (Sonic N) v+ axis points toward 90° (Sonic E) w+ axis points upward

Ultrasonic anemometer operated by the University of Basel (from Christen A. (2000): Field intercomparison of ultrasonic anemometers and their application for turbulence measurements at steep alpine slopes. Diploma Thesis. Institute of Meteorology, University of Basel.)