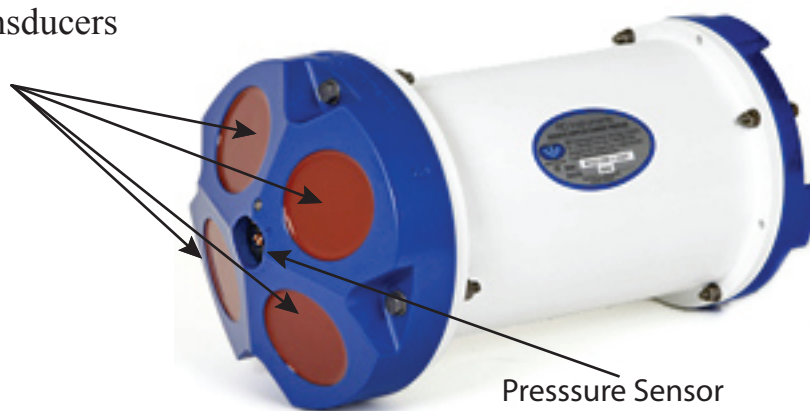


Transducers



Pressure Sensor

Figure 17. A photograph of an RD Instruments Acoustic Doppler Current Profiler (ADCP). The ADCP transducer assembly, composed of 4 transducers (red circles in the photograph), transmits acoustic pulses along two pairs of orthogonal beams (4 beams total). Pulses reflected from scatterers in the water column are received by the ADCP and converted into eastward, northward, and vertical components of water flow using the Doppler Effect and basic trigonometry. This photo is courtesy of RD instruments.