

THERMOGRAPH



APPLICATION: Thermographs are digital recording thermometers used to log temperature in the marine environment. The instruments are attached to a computer to set up recording parameters for deployment, downloading, and display of data in graphic or numeric format. These units are placed in underwater housings and attached to the bottom or suspended in the water column for deployment.

DESCRIPTION: Two types of thermograph are currently available. The Ryan Tempmentor is a reusable data logger that allows storage of a maximum of 6,361 temperature measurements in the range of -32°C to $+70^{\circ}\text{C}$ with 0.1° resolution and 0.3° accuracy. The instrument can be programmed to take measurements from once per second to once every other hour. Instrument dimensions are 3" x 6" x 1.3" and the unit weighs 11 ounces. The Hobo Temp is a miniature, reusable data logger that allows storage of 1,800 measurements in the range of -20°C to $+70^{\circ}\text{C}$ with 0.3° resolution and 0.7° accuracy. Sampling intervals from 0.5 seconds to 4.8 hours are available. Instrument dimensions are 2.4" x 1.9" x 0.8" and the unit weighs 1 ounce. Both units are battery powered with the battery life of the Tempmentor being approximately two years and the battery life of the Hobo Temp being one year.