



Sunburst Sensors

autonomous chemical sensors since 1999

AFT-pH

The Autonomous Flow Through Instrument pH (AFT-pH) has the following characteristics:

- Measures pH in the 7-9 range (Salinity 25-40)
- Designed to accurately measure pH of flowing seawater or individual samples
- Based on the same technology as the SAMI-pH
- Packaged to be plumbed into a sea line on a research vessel
- Once programmed and launched, the AFT-pH can run autonomously or while connected to a PC if real-time data is required
- Logs own data
- Can support other external instruments
- Uses a highly accurate colorimetric reagent method
- Accuracy and precision: +/- 0.003 pH units and < 0.001 pH units
- Long term drift < 0.001 pH units over 6 months

AFT-pH Performance Parameters

pH range	7-9
Salinity range*	25-40
Response time	3 minutes
Duration of use	15,000 measurements on one reagent bag
Accuracy (based on CRM intercomparison)	+/- 0.003 pH units
Precision	<0.001 pH units
Long term drift	<0.001 pH units over 6 months
Thermistor accuracy, precision	0.1° C, +/- 0.01° C
Dimensions of housing	25.4 x 30.5 x 14 cm
Weight in air/seawater	7 kg
<i>*Extended range possible, please contact us with questions. If salinity varies significantly (+/-1) the AFT can use thermo-salinograph data for correction.</i>	