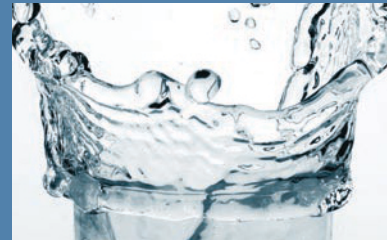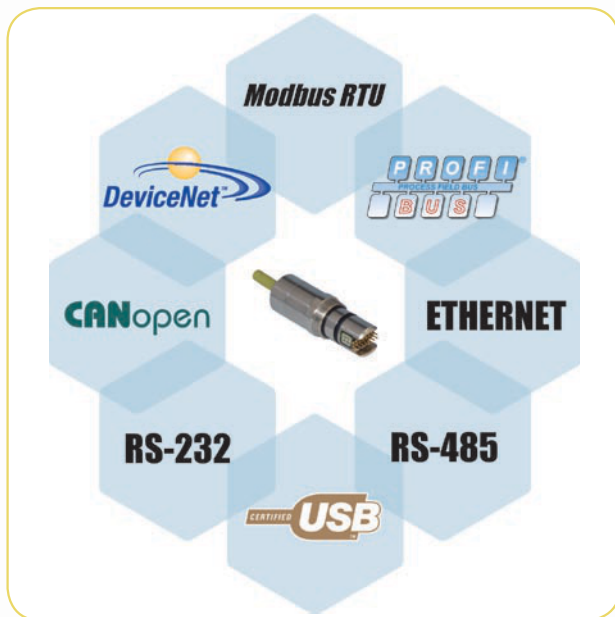# Thermo Scientific AquaSensors
Liquid Analytical Measurement Systems

Universal Plug-n-Play Sensors and Online Systems for:

- pH & ORP
- Conductivity & Resistivity
- Toroidal Conductivity
- Dissolved Oxygen
- Free Chlorine & Dissolved Ozone
- Turbidity & Suspended Solids

Direct Network Connections or Conventional Analyzer Systems

Thermo
SCIENTIFIC

Configuring a Measurement System

There are three steps to specifying a Thermo Scientific AquaSensors DataStick measurement system:

1. Select a preferred communication protocol
2. Choose the body material and mounting requirements for the DataStick sensor
3. Select a measurement parameter and sensor head

1. Communication Protocol Adapter

Thermo Scientific AquaSensors is committed to supporting a wide variety of industrial communication protocols for remote measurement, calibration, configuration and diagnostics. If a protocol of interest is not listed here, others may be considered. Contact factory for details.

Communications Adapter Selection Matrix			
Body Material	Communications	Cable Length	Cable Termination
316 stainless steel	RS-232 ASCII	10 feet	Stripped wires
PEEK	Modbus RTU	30 feet	Custom
	Modbus RS-232	Custom	
	Ethernet		
	DeviceNet		
	Profibus DP		
	USB		
	CANopen		

2. Universal DataStick Body

Choose the preferred material of construction and process mounting preference:

DataStick Selection Matrix	
Body Material	Mounting
316 stainless steel	1 inch NPT front/back
CPVC	1 inch NPT back w/ smooth front
PEEK	2.0 & 2.5 inch Tri-Clamp
	Custom mounting

The DataStick sensor body is designed as a universal module and resembles conventional sensors with 1" NPT process threads for "convertible" immersion or inline mounting. Other special mounts are available.
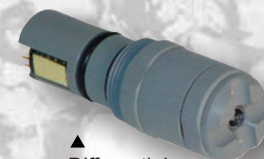
3. Measurement Sensor Head

See page 7 for sensor configurations for measurement of pH, ORP (Redox), contacting and toroidal conductivity, resistivity, dissolved oxygen, drinking water and high level turbidity, suspended solids, dissolved ozone and free chlorine.

▲ Communication Protocol Adapter

▲ Universal DataStick Body

▲ Differential pH Sensor