Smart Sensor
PRODUCT GUIDE

Seametrics

Welcome to the INW Family of Smart Sensors!

At the very heart of any water monitoring system is a sensor that takes measurements. INW's Smart Sensors' sophisticated sensing elements detect minute changes in such environmental water parameters as **pressure, level, temperature, conductivity, pH, ORP, dissolved oxygen,** and **turbidity.**

Recording dataloggers built in

Powerful internal microprocessors enable the sensors to be programmed for data recording and various monitoring sequences.

Low power consumption

INW Smart Sensors go to sleep between readings, waking up automatically as needed.

Dual power supply

Some INW Smart Sensors come with AA batties. Twelve volt external power supplies and solar panels are available for data intensive applications.

Rugged construction

Submersible units, constructed with 316 stainless steel (or titanium), fluoropolymer, and acetal, stand up to rugged and corrosive field conditions.

Powerful software

Aqua4Plus and Aqua4Plus Lite control software come standard with all INW Smart Sensors. Use this software to view the status of any sensor, take real time readings, set background recording rates, upload and view the data in a number of different formats, as well as export data to .csv (comma separated value) files for import into databases, spreadsheets, and GIS modeling software.

Easy in-field calibration

Powerful calibration wizards make in-field calibration a snap.

Dual communication protocol (Modbus® and SDI-12)

In addition to INW's software, use standard Modbus® RTU or SDI-12 equipment to easily read most INW Smart Sensors, so as to tie into your existing networks.

Cabling and networking

RS485 networking allows several sensors to be networked together and allows long cable runs.

Wireless Connectivity

Extend your networks for miles or around the world using our VZCOM modems and the Internet, allowing monitoring of data from anywhere with an Internet connection.

Feature Chart

	LevelSCOUT	BaroSCOUT	PT2X	PT2X-BV	CT2X	TempHion	DO2	Turbo	GDL[1]
Parameters									
Temperature	Y	Y	Y	Y	Y	Y	Y	Y	Y
Pressure	Y	Y	Y	Y	Y				
Level	Y		Y		Y				
Conductivity					Y				
pH						Y			
ISE						Y			
ORP						Y			
Dissolved Oxygen							Y		Y
Flow									Y
Turbidity								Y	Y
Rainfall									Y
Material									
316 Stainless	Y	Y	Y	Y	Y	Y	Y	Y	
Titanium	Y		Y	Y	Y	Y	Y		
ABS/Polycarbonate				Y					Y
Communication Protocol									
Modbus®	Y	Y	Y	Y	Y	Y	Y	Y	
SDI-12			Y	Y	Y	Y	Y	Y	Y
Baud Rate									
9600			Y	Y	Y	Y	Y	Y	Y
19200			Y	Y	Y	Y	Y	Y	Y
38400	Y	Y	Y	Y	Y	Y	Y	Y	Y
Temperature Element									
Digital			Y	Y			Y		
Thermistor	Y	Y			Y	Y		Y	Y
Pressure Element									
Gauge			Y		Y				
Absolute	Y	Y	Y	Y	Y				
General									
Submersible	Y	Y	Y	[2]	Y	Y	Y	Y	N/A
Diameter	0.875" (2.22 cm)		0.75" (1.9 cm)	N/A	0.75" (1.9 cm)	0.75" (1.9 cm)	1.66" (4.22 cm)	1.29" (3.3 cm)	N/A

1 Available parameters depend on configuration. *2 PT2X-BV in tube version is submersible.*