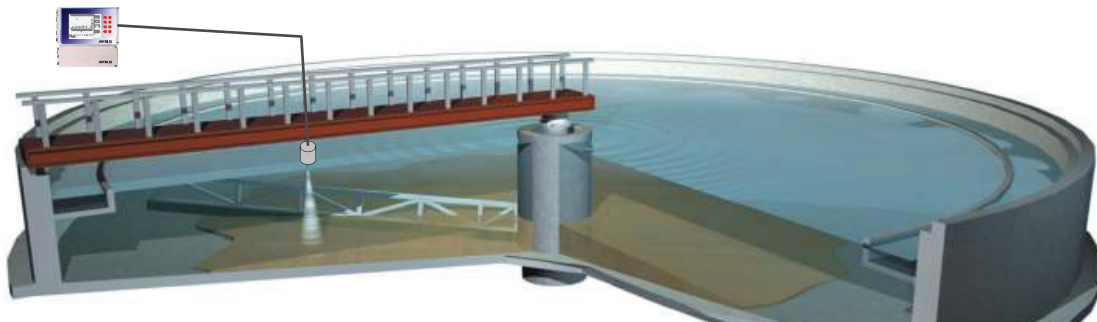


Wireless Interface Level Analyzer

Smart

Sensors generate and process the ultrasonic signal for real-time measurement and maximum flexibility. No “big ticket” auxiliary analyzers are required.

Tracking algorithms developed, independently field tested and confirmed by performance across the US and around the world.

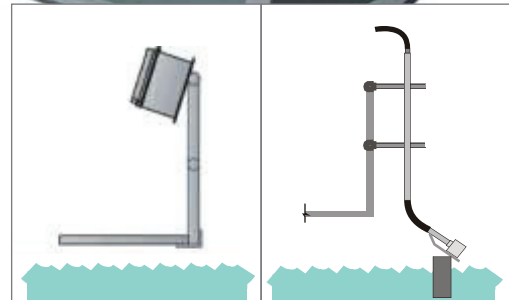


Flexible

- Complete Stand-Alone Instrument Options
- Sensor with full-function Controller
 - Sensor with Power Supply Unit (remote programming by Console Program)

Networks

- Field Interconnect up to 128 EchoSmart Sensors
- RS-485 or Ethernet Local Networks
- Integrated ZigBee Compliant RF Network



Features:

- 35mm DIN rail mount
- Standard 1W long range output, optional 50mw & 63mW
- Removable 2.0dBi dipole antenna
- DIP switch selectable channels
- Signal Strength indicator
- Repeaters available
- No software required

Benefits:

- Easily mounted
- Made to suite specific applications
- Will accept different antennae options
- Avoid interference
- Easy to set up
- Solution for difficult applications
- Easy to configure by anyone

Friendly

Easy to set-up, easy to operate and easy to secure – consistent, reliable, trouble-free measurements – that’s user-friendly

- Large display with intuitive “Page Fill” screens for quick entry of parameters
- Soft Key operation with Help Prompts for all settings
- Automatic Initialization and Automatic Gain for easy quick start and uninterrupted operation
- Easily accessible USB port for quick download of measurement trends to standard flash memory

Network

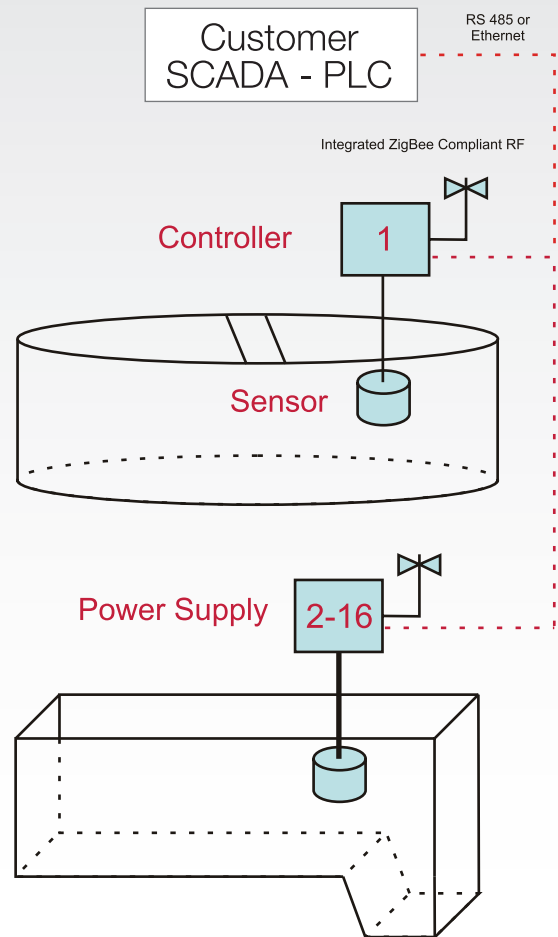
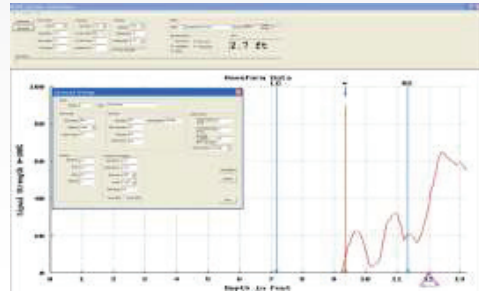
A network consists of 2-128 Sensors interconnected in a wired or wireless field network. RS-485 and Ethernet options are available for wired networks. However, fully integrated ZigBee Compliant RF networking is the clear choice for plants that want to take advantage of tremendous cost savings in reduced cabling and piping costs.

User Friendly Informational Controller Screens



Console Program

The Console Program enables the operation and control of all networked sensors from a PC or laptop computer. With the EchoSmart Console Program, all programming, monitoring and control functions are available at the data acquisition and control console.



Specifications:

Smart Sensor:

Measuring Principle: Underwater acoustic	Measurement Interval: Adjustable
Range: 1.0 to 32 ft. (0.305 to 10.0 m)	Sensor Mounting: Fixed location or flexible assembly
Resolution: 0.12 in. at 10.0 ft. (3.05 mm at 3.05 m)	Calibration: Factory calibrated. Sound speed field adjustable
Accuracy: 0.1ft. at 10.0 ft. (035 m at 3.05 m)	Ambient Humidity: 0 to 100 percent
Operating temperature: 34 to 125F (1 to 52C)	Power Requirement: 15 VDC, 20 W
Sensor Construction: PVC and epoxy Self-cleaning Wiper Sensor, silicon wiper (Optional)	Dimensions: Standard Sensor - 2.44 x 2.95 in. (6.2 x 7.5 cm) Wiper Sensor - 5.75 x 2.95 in. (14.6 x 7.5 cm)
Weight: Standard Sensor - 2.25 lb (1.02 kg) Wiper Sensor: 2.75 lb (1.25 kg)	Certifications: CE

Controller:

Ambient Conditions: Operation: -40 to +140F (-40 to +60C)	Power Requirements: 100 to 240 VAC, 50/60 Hz – 1 A Power 45 W (fused) Optional: 24 VDC
Communications: RS-485 Serial Port (Screw terminal connector) RS-232 DTE Serial Port (Male DB9 connector) Ethernet – RJ45 connector (Optional) USB Port (Type A Host) USB Service Port (Type B Device) (2) 4-20 mA Output (Screw terminal connector) HART communication (Optional) (1) Level Measurement (1) Turbidity (Optional) Integral ZigBee Compliant RF Module (Optional) Outdoor LOS Range: up to 3.0 miles Self-healing mesh network Embedded F Internal Antenna Approvals: FCC Part 15.247, Industry Canada	Relays (Optional): Four relays - 10 A @ 250 VAC; 10 A @ 30 VDC
Display: Graphical backlit monochrome screen Resolution: 320 x 240 pixels Viewing Area: 2.6 x 3.45 in. (92 x 122 mm)	Network Communication: RS-485, Ethernet, or Integral ZigBee Compliant RF (Optional), Network up to 128 sensors in a local area network
Certifications: CE	Memory Backup: All user settings are retained indefinitely in memory (non-volatile, EEPROM)
	Mounting Configurations: Surface and pipe mounting
	Enclosure: NEMA 4X, IP65; Polycarbonate ABS enclosure
	Dimensions: 9.25 x 9.0 x 4.5 in. (235 x 229 x 115 mm)
	Weight: Approximately 3.0 lb (1.36 kg) depending on configuration

Power Supply Unit:

Ambient Conditions: Operation: -40 to +140F (-40 to +60C)	Power Requirements: 100 to 240 VAC, 50/60 Hz – 1 A Power 45 W (fused) Optional: 24 VDC
Communications: RS-485 Serial Port (Screw terminal connector) RS-232 DTE Serial Port (Male DB9 connector) Ethernet – RJ45 connector (Optional) USB Port (Type A Host) USB Service Port (Type B Device) (2) 4-20 mA Output (Screw terminal connector) HART communication (Optional) (1) Level Measurement (1) Turbidity (Optional) Integral ZigBee Compliant RF Module (Optional) Outdoor LOS Range: up to 3.0 miles Self-healing mesh network Embedded F Internal Antenna Approvals: FCC Part 15.247, Industry Canada	Network Communication: RS-485 or Integral ZigBee Compliant RF (Optional)
	Mounting Configurations: Surface and pipe mounting
	Enclosure: NEMA 4X, IP65; Polycarbonate ABS
	Dimensions: 7.125 x 7.125 x 2.375 in. (181 x 181 x 61 mm)
	Weight: Approximately 1.5 lb (0.68 kg) depending on configuration
	Certifications: CE

Other Wireless Solutions:



Wireless DO

The sensor has no maintenance or expenditures as far as caps to replace; it is simply a long lasting rugged sensor with a five year warranty. It is also not affected by sunlight; no flow is needed for accurate readings, no membranes to fill, no fill solutions, no yearly expenditures or work. Just install it and forget it.



Wireless Valve Monitor

Traditionally, valve monitoring has been expensive and cumbersome when used with wired systems. In contrast, the Aysix wireless solution utilizes low cost equipment, fast installation, easy operation, and effective diagnostics/maintenance technology.



Wireless DC Powered

Combining simplicity and functionality in an industrial point to point RF transceiver, the A750 receiver and A753 transmitter offer quick installation and reliable transmission of a 4-20mA signal and two digital inputs and outputs.



Wireless - Repeater

To transmit/receive RF signals over obstacles or for greater distance the A759 RF repeater can be utilized. The A759 works in concert with the A750 receiver and A753 transmitter. The A759 will automatically detect the A750 and A753 and begin repeating, no setup required.



Hazardous Area Wireless

The A753-EXP houses the DIN rail model A753 RF transmitter in a hazardous area enclosure with explosion proof antenna. Input is 4-20mA and two discrete switches. The A753-EXP is designed for Class 1, Division 1, Groups C & D environments.



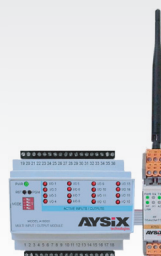
Hazardous Area Antennas

The CTB, CTM, & CTX Series of antennas are designed for use in "Hazardous-Classified" and Industrial-Hardened applications. The antennas are omni-directional with 2.0 dBi gain and designed for flexible mounting.



Expansion Modules

Expansion modules are used to increase the number of inputs and outputs available on the A753 RF transmitter and/or A750 RF receiver. Both analog and digital inputs/outputs can be expanded. Communication between module and transmitter or receiver is accomplished via AnaBus



Multi-Channel Expansion Module

The RF I/O Expansion Model A16000 can expand the inputs or outputs to 16. Up to four internal cards can be beaded to the A16000. Internal cards can include analog or digital inputs or outputs. Each card has up to four inputs or outputs. Cards can be mixed, example: four 4-20mA inputs, four 4-20mA outputs, eight relay outputs. The A16000 is powered by the A750 or A753 via Anabus.