



Electronic Sensors, Inc.

**The Owl
Model 9227x**

**Ultrasonic Distance Measuring Device
with Cellular or Ethernet Output**

DESCRIPTION

The Owl is an ultrasonic ranging device with a maximum measurement distance of 12 feet and can accurately resolve distances to the nearest 0.1 inch. Whether used to measure the level in a storage tank, record the rise and fall of the level in an exotic aquarium, or measure any other changing distance of interest, the Owl will accurately record a distance and post the historical data on the Internet for viewing. The Owl's ultrasonic sensors are closed face type allowing the Owl to work in locations not suitable for open face ultrasonic sensors. Normal mounting of the Owl is to screw into a 2-inch NPT top of tank opening, or it can be mounted facing a surface perpendicular to the face of the sensor, and a surface that moves between 6 inches and a maximum of 12 feet from the face of the sensor.



TYPICAL INSTALLATION

The owl is housed in an end-cap of a 2-inch PVC pipe fitting so it screws directly into a 2-inch NPT opening of a tank, or it may be placed outside a tank, facing any surface that may be moving. The Owl must be placed perpendicular to the surface being measured allowing ultrasonic wave to reflect directly back to the sensor.

The PVC end-cap housing has a RJ-45 Ethernet connector built into it allowing either a router or a cellular phone adapter to be connected.

If connecting to a router, a CAT-5 cable (not provided) is ran from the Owl to a network router and then at the router, a Y-cable (provided) is used to connect the Owl to the router (CAT-5 cable provided) and to a wall transformer (provided) for power. No fire wall changes are required because the Owl only calls out, allowing the same security, that was in place before the Owl's connection, to stay in place.

When connecting to a cell phone, a CAT-5 cable (provided) is used to connect the Owl to cell phone adapter (provided). This adapter, acting as a network router, talks to the Owl and the cell phone, translating Owl's data into a cellular data format, allowing data transmission across the carrier's cellular towers to the Data Center, for web posting of levels, and for generating level notifications, as requested by the user.

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2063 S. Edwards, Wichita, KS 67213

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9215 SPECIFICATIONS

Range	0.5 to 12 feet
Frequency	40 KHz
Mounting	2-inch NPT
Cone angle	15 degrees per side
Resolution	0.1 inch
Update rate	Programmable from 1 to 10080 minutes
Filtering	Averaging from 1 to 10 samples Maximum window size from 1 to full range Wild point counter from 1 to 10
Predictive maintenance	Yes
Output	Cellular: Model 9227C Ethernet: Model 9227E
Power	6 VDC @ 250 ma from wall transformer
Temperature range	-20F to 140F
Specifications may change without notice.	

HOW TO ORDER

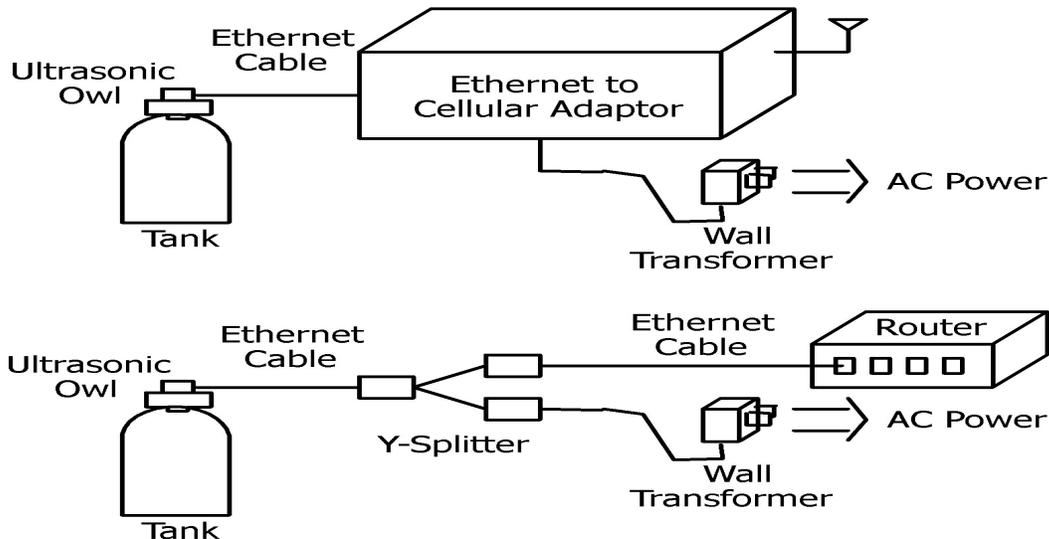
For cellular unit order part number 9227C-KIT
Includes:

Part Number	Description
9227-01	Owl device
E2C-x-ADP	Ethernet to Cellular adapter x = V for Verizon x = G for ATT x = T for T-Mobile
WA-CAT5	CAT-5 cable 3ft with RJ45 both ends
PS6@250	120VAC Wall Transformer 6VDC @ 250ma
CP-02D	2 reading per day

For Ethernet unit order part number 9227E-KIT
Includes:

Part Number	Description
9227-01	Owl device
POE-Y-Cable	Ethernet POE cable splitter
WA-CAT5	CAT-5 cable 3ft with RJ45 both ends
PS6@250	120VAC Wall Transformer 6VDC @ 250ma
EP-24D	24 readings per day

Either the complete kit or any of the parts may be ordered separately.



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