



# Electronic Sensors, Inc.

## Models 9177/9178 Wireless Level Alarm

### Description

The model 9177 (receiver) and the model 9178 (transmitter) are a wireless liquid-level alarm system used to detect either high level (standard) or low level conditions. A tank, equipped with a model 9178 transmitter, reports its alarm condition wirelessly to a model 9177 receiver and eliminates the need for conduit and cables from the tank. The model 9177 receiver reports the alarm condition from up to four (4) transmitters and activates a loud sonic enunciator when an alarm occurs. A front panel push-button allows the sonic enunciator to be silenced while the alarm light continues to blink until the alarm condition is removed.

### Specifications

#### Receiver (Model 9177)

Alarm Capacity	Up to four (4) Transmitters
Power Source	9-Volt power adapter (120 VAC)
Display	4 Alarm lights 4 Low battery lights 1 Service Required light 1 Power light
Audio	Sonic Enunciator @ 85db
Weight	1.5 pounds
Size	See Drawing
Mounting location	Inside wall
Outputs	Four (4) electrical switches one per alarm (50ma @ 35VDC maximum, open collector)
Inputs	Seven (7) Setup switches Four (4) RF transmitter channels One (1) Silence Button

#### Transmitter (Model 9178)

Alarm Capacity	One (1) Alarm Level
Power Source	3V Lithium Battery (included)
Report Rate	Instantly at each change and periodically at 20 minutes or less
Transmit Frequency	902 – 928 MHz spread spectrum
Weight	2 pounds
Exposed Material	PVC
Mounting Location	Top of tank – indoors or out doors, within 300 ft of receiver.

Specifications subject to change without notice.

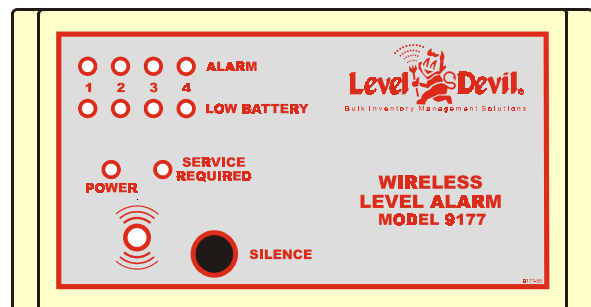
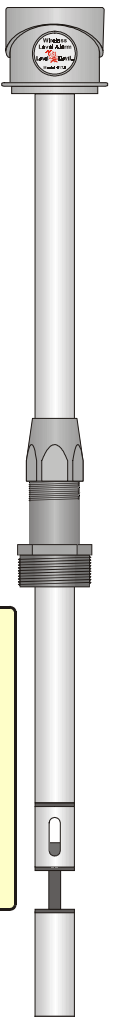
### Operation

A float on the end of the transmitter unit causes a concealed switch to identify an alarm condition. The transmitter immediately reports the new level to the receiver, which in turn sounds the sonic enunciator and turns on the alarm light. An electrical output (one per alarm) also indicates the new alarm status.

After an operator confirms the alarm condition by pressing the silence button, the receiver continues to chirp every hour as a reminder of the alarm condition. Once the alarm condition has been removed the chirping stops automatically. Other situations causing the hourly chirping are: low transmitter battery, lost communication with a transmitter, and an optional six (6) month system check reminder.

### Applications

- High level alarm to prevent tank overflow...*clean ups are expensive.*
- High level alarm to shut off a pump...*automation saves employee time.*
- Low level alarm to protect a pump from a dry out condition...*Pumps are expensive to replace.*
- Low level reorder-point alarm...*Prevent costly and unexpected shut downs.*
- Monitor up to 4 tanks by adding more transmitters.
- Helps to keep people and EPA off your tanks!



Note: Not to scale.

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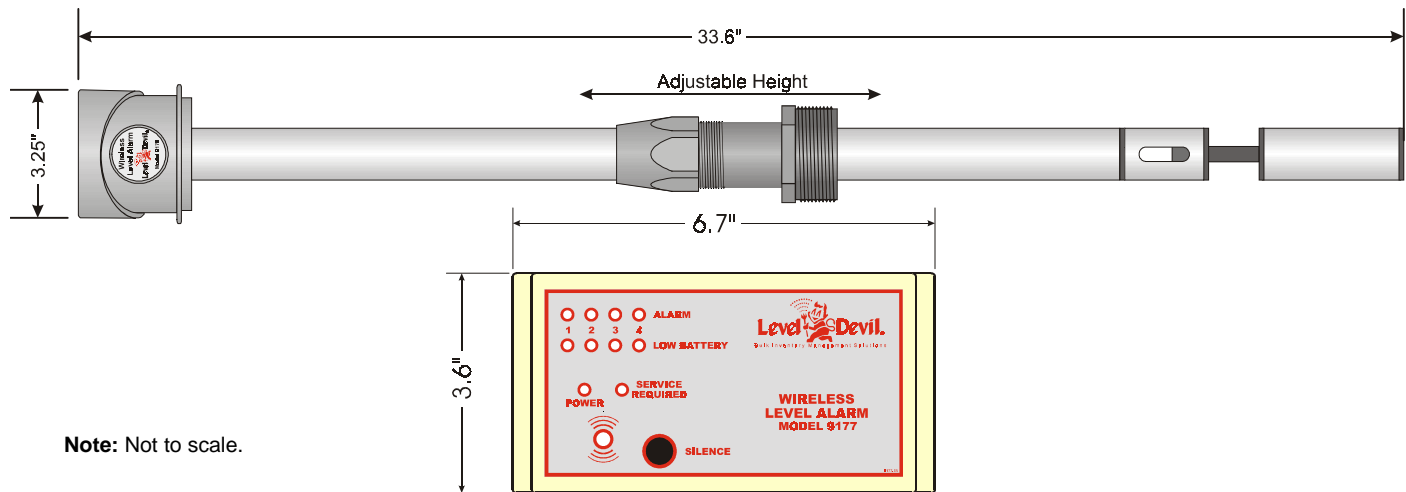
## Models 9177/9178 Wireless Level Alarm

### How to Order

- 9177** Receiver  
-C See note 1
- 9178** Transmitter with high level electronics  
-V Includes tank venting (not recommended for outdoors)  
-L Transmitter with low level electronics  
-C See note 1
- BATT3V-LI** Lithium Replacement battery

Note 1: Contact factory when more than four (4) transmitters are needed within the same area. Factory coding is required. Maximum alarms per area are 64.

### Dimensions



### Warranty

*Electronic Sensors, Inc. products are warranted to be free of defects in material and workmanship. This warranty extends to the purchaser for a period of one (1) year from the date of purchase and applies only when the products are installed in accordance with the manufacturer's instructions and used for the purpose for which it was sold. This warranty does not cover damage or wear which, in the judgment of the manufacturer, arises from misuse, excessive abuse, negligence, improper application, improper installation or acts of God. This limited warranty in no case will go beyond the replacement of defective components or, at the option of the manufacturer, a full refund of monies paid, less freight. All other warranties, whether expressed or implied, including all implied warranties of merchantability, are hereby specifically disclaimed.*

### Disclaimer

It is highly recommended when dealing with potential pollutants, that a redundant, dissimilar level control system be installed.

Your Area Representative:



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