# Product Sheet SOS VIII, IX and X
# by SIREN-OPERATED SENSORS

## America's Most Widely Used Emergency Gate Access System

The Siren Operated Sensor (SOS) responds to the sound of a siren to open residential, commercial, airport, government, and military gates in an emergency. Currently used throughout the Americas and Europe and mandated in many communities nationwide, the SOS is the most reliable, cost-effective device for opening your gates, roll-up doors, parking arms, and barriers in an emergency.

## Top Reasons to Buy the SOS

**Cost Effective**: SOS is the most cost effective way for emergency responders to access your home or business without stopping or leaving their vehicle to enter a code or use a key, or causing costly damage by ramming your gate.
**Reliable**: The reliability of the SOS Emergency Access System has made it mandatory in many communities throughout the country. Once SOS is installed on your gate, your concerns about emergency vehicles gaining access to your property will vanish. This system saves vital seconds in an emergency.
**Customizable**: SOS is compatible with all gate operators. You can determine if you would like the gate to open and close momentarily, remain open for 15 minutes or remain open until the reset button has been pushed.

## Top New Features of the SOS

**New Processor:** Siren detection is more accurate than ever. The SOS comes equipped with a new processor to reduce false triggers and inaccurate signal reads.
**Redesigned Potentiometer:** Now you can adjust the sensitivity of the SOS's siren detection with greater ease and precision. The settings are clearly marked -- and with nine of them, you can fine-tune the unit's siren detection sensitivity to your exact specifications.
**Simpler Programming:** The SOS is equipped with four switches to customize the length of time the gate remains open after being triggered. Keep it open for 15 seconds or if you prefer, latch it open until the reset button is pushed. Programming your customized settings is as easy as flipping a switch.
**External Reset Button:** No more having to remove the cover to reset the sensor. Just push the new external reset button and save yourself the hassle.
**Siren Test CD:** The SOS includes a CD recording of an emergency responder "yelp" so you can test the unit and adjust the sensitivity settings to your preference.
**Installation Instructions:** The guesswork is taken out of installing, testing, and programming your SOS unit with rewritten and simplified instructions.
**Reflective Sign:** Each unit ordered comes with a 4" X 5" or 8" x 10" sign which clearly tells emergency responders your gate is protected by SOS. It is your choice which size sign you get.

## FAQs About the SOS

**Will the gate open if an emergency vehicle travels along the road with its siren on?** When in the "YLP" mode the sensor must detect the "Yelp" siren for 3 seconds at the correct decibel level (which can be adjusted) before the gate will open. Most emergency vehicles only use the "Yelp" siren at intersections

or other times when they need to alert others and typically use a different siren when driving. When driving at 35 MPH even with the "Yelp" siren on, the siren will move out of decibel range before 3 seconds. By adjusting the potentiometer you can change the decibel level that must be achieved for 3 seconds before the gate will open.

**Do some communities require that SOS units be installed? And if so, why?**
Yes, some communities throughout the country require that SOS units be installed to open gates in an emergency. Communities that have not standardized to SOS may be using a variety of devices such as key pad entry systems. They change access codes and fail to provide them to the authorities, leaving emergency responders unable to open the gate. Thus, some areas have mandated the use of SOS units to standardize the gate entry system, thereby allowing the Fire Department or other first responders to access a gated community in the event of an emergency. Areas which have mandated the use of the SOS includes: Hollywood Park, TX; McAllen, TX; Bexar County, TX; Minneola, FL; Cocoa Beach, FL; Greer, SC; Fraser, MI; Marietta, GA; and Douglas County, GA.

## Technical Requirements of the SOS

**Voltage:** DC 9 to 30 volts or AC 9 to 16 volts
**Amp draw:** 0.1 mA (milliamp)
**Wire gauge:** 22 AWG (not included)
**Temperature:** The SOS remains functional in temperatures ranging from -30 to 120 degrees Fahrenheit.
**Required Decibel Level:** This is the decibel level the unit receives to trigger the sensor, not the level the siren produces. The necessary decibel level varies by the unit's sensitivity setting:

- Sensitivity set at 0: The unit will not trigger at any decibel level
- Sensitivity set at 3: The unit will trigger at 125 decibels
- Sensitivity set at 5: The unit will trigger at 105 decibels
- Sensitivity set at 7: The unit will trigger at 95 decibels
- Sensitivity set at 9: The unit will trigger at 80 decibels

## Advantage of each model

SOS VIII: Smallest enclosure, screw down lid, ½ inch conduit tap on the side.
SOS IX: Flip lid, and mounting feet.
SOS X: Larger enclosure, drill through the back of the enclosure for mounting and bring in wires.

## Enclosure sizes (measurements in inches)

SOS VIII: H 4.75; W 3.5; D 2.5
SOS IX: H 5.5; W 4.5; D 2.75
SOS X: H 6.5; W 3.5; D 2.5