Exit Stopper®
STI-6400 Series

Features
- Helps prevent unauthorized exits/entries through doors.
- Easy to install. Warning sound when turning on (two flashes/beeps) and off (one flash/beep).
- Add warning in second language with provided labels (21 languages).
- Select volume, alarm duration and delay settings.
- Mount on top, right, left or next to almost any door.
- Select on-site whether to use an alarm or annunciator.
- Low battery detection, beep and flashes.
- Alarm sounds and high power LED light flashes when activated.
- Dry contact Form C relay.
- Protect anything such as cabinet, extinguisher, etc. with an external reed or any mechanical switch.

Rely on STI®
**Warnings**

All units are recommended for indoor use only. Unit must be tested periodically to verify the life of battery. STI recommends you change the 9 Volt battery twice a year. To hear alarm when normal work environment is loud, may need to purchase remote horns. When purchasing a remote unit (STI-6403 or STI-6404) you will need to periodically test the connections to make sure audibles function at a sound level to alert staff. Maximum of three remote alarms may be used in parallel.

All specifications and information shown are current as of publication and subject to change without notice.

**Warranty Information**

- Three year guarantee against breakage of polycarbonate in normal use (one year on electro mechanical and electronic components).
- Electronic warranty form at [www.sti-usa.com/wc14](http://www.sti-usa.com/wc14)

⚠️ **WARNING:** This product can expose you to chemicals including Dichloromethane, which is known to the State of California to cause cancer, and Bisphenol A (BPA), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).
Specifications

Polycarbonate Enclosure

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>5.375” W x 5.375” H x 2 “ D (137mm x 137mm x 51mm)</td>
</tr>
<tr>
<td>Flammability</td>
<td>UL94 V-2</td>
</tr>
<tr>
<td>Wall Thickness</td>
<td>0.12 in (3.05mm)</td>
</tr>
</tbody>
</table>

Electronics

<table>
<thead>
<tr>
<th></th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power source</td>
<td>9 VDC battery</td>
</tr>
<tr>
<td></td>
<td>If not using, slide switch 6 “on”</td>
</tr>
<tr>
<td>Remote power input</td>
<td>12VDC - 24VDC, 300mA</td>
</tr>
<tr>
<td></td>
<td>Installed battery will act as backup power if switch 6 is “off”</td>
</tr>
<tr>
<td>Horn volume</td>
<td>30 cm high volume 112dB; low volume 97dB</td>
</tr>
<tr>
<td></td>
<td>100 cm high volume 102dB; low volume 88dB</td>
</tr>
<tr>
<td>Low battery detection</td>
<td>Flash 1x / minute; beep 1x / 3 minutes</td>
</tr>
<tr>
<td>Relay contacts</td>
<td>0.5A 125VAC / 1A 30VDC</td>
</tr>
<tr>
<td>Stand by current</td>
<td>Battery &lt;15μA (Battery Life approx. 2 years dependent on use)</td>
</tr>
<tr>
<td></td>
<td>12VDC &lt;0.15mA</td>
</tr>
<tr>
<td></td>
<td>24VDC &lt;1mA</td>
</tr>
<tr>
<td>Alarm current (volume high + relay)</td>
<td>&lt;286mA @12VDC  &lt;149mA @24VDC</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>14°F to 122°F (-10°C to 50°C)</td>
</tr>
<tr>
<td>Power “on” notification</td>
<td>2 flashes and 2 beeps</td>
</tr>
<tr>
<td>Power “off” notification</td>
<td>1 flash and 1 beep</td>
</tr>
</tbody>
</table>

Electronics: STI-6403 and STI-6404 - Remote Horn Unit

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Source</td>
<td>9 VDC operating power* only</td>
</tr>
<tr>
<td>Horn Volume at 1 ft.</td>
<td>95 dB low / 105 dB high</td>
</tr>
<tr>
<td>Stand by Current</td>
<td>0 A</td>
</tr>
<tr>
<td>Alarm Current</td>
<td>50mA at 95 dB/ 200 mA at 105 dB</td>
</tr>
</tbody>
</table>

* Power source for the STI-6403 and STI-6404 Remote Horn uses a separate power source from the STI-6400 alarm. The Remote Horn contains an internal 9 volt battery. Horn operates when the Form C contact at main unit is activated on alarm.
Circuit Board Set-up

All models are shipped with jumper across RS2 terminals for use with one reed switch. If using second reed switch, remove jumper wire and insert second reed switch.

Figure 1

Switch Settings

<table>
<thead>
<tr>
<th>SWITCH SETTINGS</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arming - immediate</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>OFF*</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Arming - 15 second delay</td>
<td></td>
<td></td>
<td></td>
<td>ON</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Trip - immediate</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>OFF*</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Trip - 15 second delay</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>ON</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shut-off based on duration (switches 4 &amp; 5)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>OFF*</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shut-off approx. 3 sec. after door closes</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>ON</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Duration - 30 second alarm</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>OFF*</td>
<td>OFF*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Duration - 180 second alarm</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>OFF</td>
<td>ON</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Duration - continuous alarm</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>ON</td>
<td>OFF</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Duration - 30 second annunciator mode</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>ON</td>
<td>ON</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Low battery detection on - Turn switch off</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>OFF*</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Low battery detection off - Turn switch on</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>ON</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Volume - high</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>ON*</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Volume - low</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>OFF</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dry contact relay function</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>OFF</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dry contact relay function → On</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>ON</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Slide switch lever to desired ON/OFF position as labeled on circuit board.  
*factory settings

NOTE: Disconnect all power sources before changing switch settings.

Battery Replacement

If low battery is detected (flashes once a minute and beeps once every three minutes), replace 9 VDC battery. When replacing battery with all power and battery removed; flip switch “6” on/off to reset supervisory; than replace battery and any remote power.
Alarm Feature Description

Switch settings – factory default listed first
1 OFF = arming immediate (ON for 15 second delay)
2 OFF = trip immediate (ON for 15 second delay)
3 OFF = shut-off based on switches #4 and #5 (ON shut-off approx. 3 sec. after door closes)
4 OFF and Switch 5 OFF = duration 30 sec. (other options 4 OFF and 5 ON = duration 180 sec., 4 ON and 5 OFF duration continuous, 4 ON and 5 ON = annunciator beeps)
6 OFF = low battery detection. Flashes once per minute and beeps once every three minutes.
   ON turns off low battery detection, use when not operating battery for backup.
7 ON = high volume (OFF = low volume)
8 OFF = relay and battery power saver (ON for relay function)

Test Alarm

Note: STI recommends testing the alarm in factory settings prior to mounting (see Switch Settings). **Disconnect all power sources before changing switch settings.**

1. Make sure key switch is in the OFF position.
2. Remove tamper screw on the side of the unit using the tamper wrench provided. Remove housing cover. Save the tamper wrench for future service and battery replacement (Fig. 2).
3. Connect battery.
4. Place magnet next to reed switch. Note: for STI-6402 and STI-6404 models, place magnet next to reed switches 1 & 2.
5. Turn the key switch to the ON position.
6. Move magnet away from reed switch. Unit should alarm immediately.
7. Turn unit off with the key to silence alarm.
8. Apply optional label if desired.

Installation Instructions

1. Set switches on circuit board to desired alarm settings (Fig. 1).
2. If using external power source, use Class II UL Listed 12-24VDC supply. If not using 9V battery, be sure switch 6 is in “ON” position before connecting any power. Refer to page 4 figure 1.
3. Mount main unit on or next to the door using hardware provided. Reed switch may be located in one of four internal positions or route the reed switch through the slot in the bottom of the cover as shown in Fig. 3.
4. Mount magnet using hardware provided. Magnet must be within ¾” of the reed switch when door is closed. Please refer to figures 8, 9 and 10 for other mounting options. Note: When mounting on metal doors or door frame, use plastic spacers provided.
5. If installing STI-6402, STI-6403, STI-6404 or STI-6405 continue to page 6.
6. Replace cover by sliding flanges on inside of cover into slots on base, snap closed and replace the tamper screw.

**STI-6402 Double Door Install Notes**

1. If not using extra reed switch, leave jumper wire across terminals RS2 on terminal block.
2. STI provides 1 internal reed switch with approx. 14” wire and 1 reed switch with approx. 72” wire (cut wire to desired length).
3. First reed switch is connected to RS1. Remove jumper and connect second in RS2 (Fig. 4). Refer to Fig. 1 for additional details.

*Note: Alarm will sound when either door is opened.*

**STI-6403 Remote Horn Install Notes**

1. Remove cover.
2. Move relay function (switch 8) to “ON” (see page 4).
3. Connect two conductor wire (14-24 AWG) from main unit terminal block pins COM and NO to remote horn unit terminal block (wire not provided). Units can be set up to 300 ft. apart. Not polarity sensitive (refer to Fig. 1 and Fig. 5 for details).
4. Connect internal battery.
5. Mount similar to main unit with #8 x 1 in. screws and anchors if necessary.
6. Replace cover and screws.
7. Turn key switch to ON position.

*Note: The ON/OFF key position is opposite from 6400 main unit. Remote horn sounds when main unit alarm is activated.*
**STI-6404 Double Door with Remote Horn Install Notes**

The STI-6404 is a combination unit for double doors with a remote horn. Reference the installation instructions for the main unit, the STI-6402 and the STI-6403 for complete installation.

**STI-6405 Exit Stopper with Momentary Reset**

The STI-6405 uses a momentary switch. After initial installation, unit is always on and you do not have to remember to turn it on when you leave a protected area. This model also eliminates having to remember to re-arm it because it is never off.

When the alarm is triggered, to silence the alarm, insert the key and turn completely to the “RESET” position and hold for 2 seconds, then release. The switch will spring back to its original position and push the key out. To turn the unit off, supply power must be removed.

**Label Option**

- Optional use
- Recommend applying before mounting
- Provides bilingual instructions
- Select from 21 languages

**Mounting Options**

![Typical Flush Mount Door Jamb Installation](image_url)

- Screw 6 x 1 1/4 in. (2) PROVIDED
- Magnet must be installed opposite raised rib on outer cover
- Spacers - use as necessary
- Note: (2) Spacers must be used on steel doors
- Anchor (2) PROVIDED
- Door swing
- Door stop
- Door

![Typical Receded Mount Door Jamb Installation](image_url)
*Note: When mounting reed switch on door and the main unit on wall, wire service loop must be used.

Figure 9

TYPICAL RECESSED MOUNT DOORJAMB INSTALLATION

3/4 in. (19mm) MAXIMUM GAP

MAGNET ASSEMBLY (SEE ABOVE FOR INSTALLATION)

DOOR STOP

MAGNET

6400 SWING

3/8 in. (9.5mm) ON METAL DOOR AND FRAME

SPACERS (USE AS NECESSARY)

NOTE: (2) SPACERS MUST BE USED ON STEEL DOORS

ANCHOR (2) PROVIDED

MAGNET

6400 UNIT

DOOR SWING

TYPICAL DOUBLE DOOR INSTALLATION

STI 6402

Figure 10

Safety Technology International

2306 Airport Rd • Waterford, MI 48327, USA
Phone: 248-673-9898 • info@sti-usa.com • www.sti-usa.com

Taylor House • 34 Sherwood Road • Bromsgrove, Worcestershire • B60 3DR • England
Tel: +44 (0)1527 520 999 • info@sti-emea.com • www.sti-emea.com

Unit 7A • Lockhead Avenue • Airport Business Park • Waterford • X91 HWF2 • Ireland
info@sti-emea.com • www.sti-emea.com