

# IDP 013

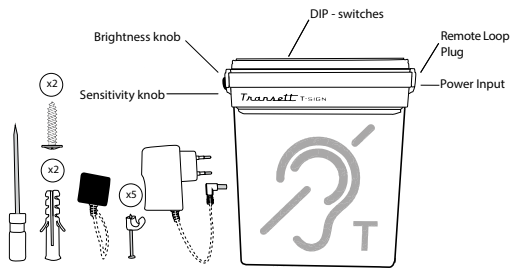
## Induction Loop Status Sign

### USER MANUAL



# What's in the box

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- Sign
- Power Input
- 4 International Plug adaptors
- Remote Loop Sensor
- Mounting materials

## Understanding the Transsett T-sign

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T-sign, an active hearing loop indicator, is designed to indicate how a hearing loop functions. T-sign is programmed with various indicators that show how well the sound level is transmitted via the loop.

### Starting the Sign

In order to run T-sign in normal operation mode, plug in the power. Let there startup sequence complete, which will take about five seconds.

During the startup sequence, The program selected is indicated by the number of green light flashes. Program one gives one flash. Program two gives two flashes.

### Strength Indicators

T-sign will light up in different ways based on the strength of the loop signal.

- **No signal** (< -15 dB) : Dark
- **Weak signal** (-7 - -15 dB) : Soft flashing green light
- **Normal signal** (0 - -6 dB): Steady green light
- **Strong signal** (> 0 dB): Steady red light

The length of time used to determine signal strength is based off the program selected. The programs are selected via the 3rd DIP switch at the top of the sign (see "DIP Switch Configuration" on page 5) and are described below. The times approximations are based on a 1 kHz signal with 3 dB step below or above the threshold.

### Program 1

T-sign will react relatively fast to changes in magnetic field strength. This is useful when a quick response is needed, such as when a live speaker is interested in knowing that the correct microphone technique is used. When using T-sign for speech, the times will vary depending on the characteristics and intensity of the signal.

- From dark to weak signal indication: 1 sec
- From weak to normal signal indication: 2 sec
- From normal to strong signal indication: 4 sec
- From strong to normal signal indication: 2 sec
- From normal to weak signal indication: 4 sec
- No signal detected: 3 sec

### **Program 2**

T-sign will react slower to changes in magnetic field strength. This program is good to show that the hearing loop is functional at a basic level, even when it may not be possible to adjust any settings.

- From dark to some indication: 5 sec
- From weak to normal signal indication: 4 sec
- From normal to strong signal indication: 15-25 sec
- From strong to normal signal indication: 2 sec
- From normal to weak signal indication: 25 sec
- Time to dark T-sign when no signal detected: 60 sec.

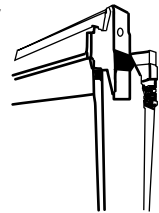
## **Installation**

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Before installing the T-sign, a functioning hearing loop setup in accordance with the SIS 60118-4 standard should be installed in the room. A sound source (such as a microphone) must be set up to provide audio to the hearing loop.

**Make sure that the hearing loop is not in use during T-sign installation.**

1. Choose an appropriate place for T-sign. Due to signal interference, it is not recommended to place T-sign close to any electronic devices.
2. If the T-sign cannot be placed within the loop, connect the Remote Loop Sensor above the power connector, and leave the black square end of the sensor within the loop. Hook-and-Loop tape is provided to secure the sensor in place. If the remote sensor also cannot be placed within the loop, the sign will need to be moved.
3. Connect power to the T-sign and keep it at or nearby the chosen mounting place.
4. Verify that there is no signal interference. The T-sign should remain dark when there is no audio being sent to the hearing loop.
5. Set the sensitivity via the sensitivity knob with the enclosed screwdriver. The knob can be adjusted between a minimum of +9 dB and a maximum of -22dB.  
A high sensitivity setting in combination with background signal

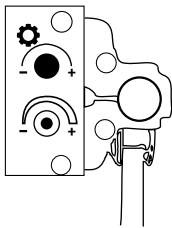


interference and with the magnetic field strength from the hearing loop at the chosen location may cause the T-sign to show false information. Consider choosing a different location with stronger field strength and/or less signal interference from the surroundings.

6. Drill two screws onto the wall according to the drilling template (“Drilling template” on page 6).
7. Enter calibration mode to set other settings. See “Calibration Mode” on page 4 for details.

## Calibration Mode

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When in calibration mode, T-sign shows the magnetic field strength in real time where it is mounted. The calibration mode is used to adjust the sensitivity so that T-sign changes color from green to red when the magnetic field strength at the place of listening (most probably NOT at the mounting spot) is 400 mA/m for 1 kHz.

If you don't have access to a measuring device adjust the sensitivity while sending a strong signal to the hearing loop (as received at the normal listening position) so that T-sign turns red in the transients. Depending on the setting T-sign will be more or less prone to change to red color for a strong signal.

1. Turn off T-sign by unplugging the DC connector or unplug the power supply. Wait a few seconds until it has shut down.
2. Turn the brightness knob to minimum.
3. Turn on T-sign by plugging in the DC connector or by plugging in the power supply
4. After that T-sign has flashed the lights indicating the program, turn the brightness knob to maximum. **This must be done within two seconds after the green flash(es).**
5. The T-sign will indicate that it is in calibration mode by doing two short green double flashes. The device is now in calibration mode.

To exit calibration mode:

1. Remove the DC adapter and wait approximately five seconds.
2. Reconnect the DC adapter.

# DIP Switch Configuration

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The DIP Switches at the top of the device control which setting is being adjusted.

- **Setting 1:** Toggles automatic control of the light intensity based off light in the room.
- **Setting 2:** Reduce the sensitivity for the weak signal. To be used when high sensitivity is needed even with surrounding interference.
- **Setting 3:** Change the indication of a strong signal from a steady, red light to flashing, red light.
- **Setting 4:** Select Program 1 or 2 (see “Understanding the Transett T-sign” on page 2).

# Cleaning and Maintenance

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Use a damp cloth to wipe it on the outside. Never use cleaning products or solvents.

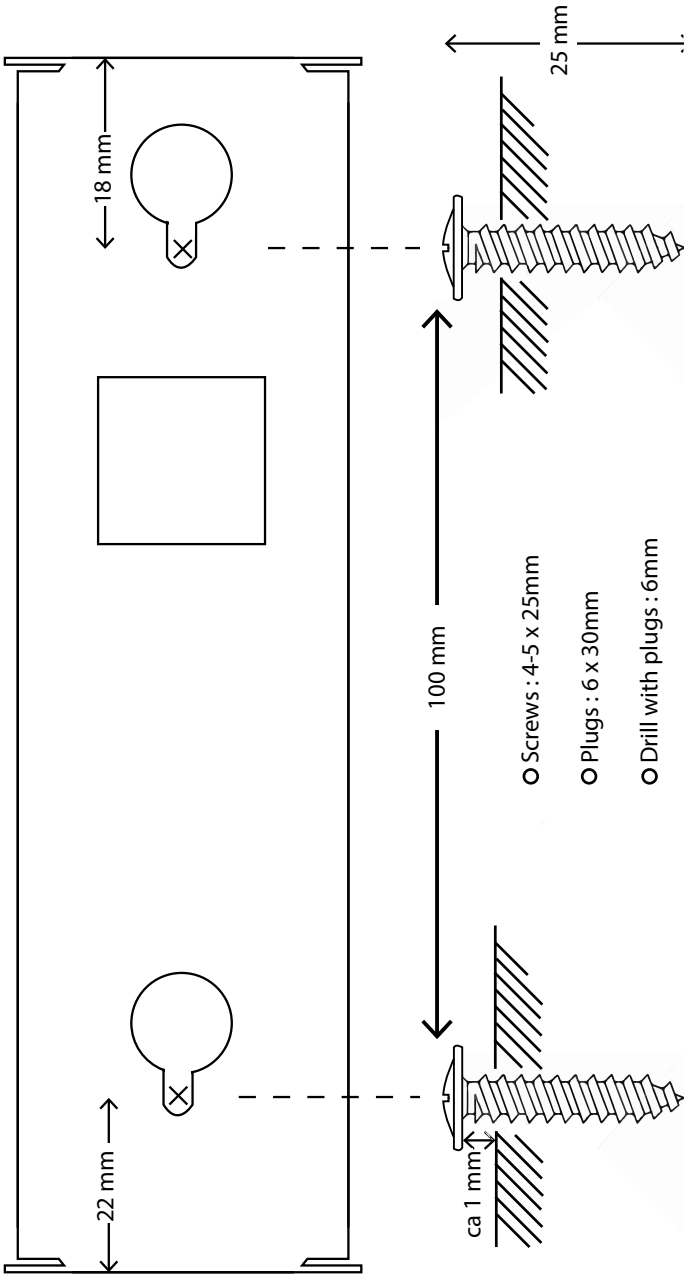
## Repairs

If your product malfunctions, it must be repaired by a qualified technician. Do not attempt to open the case of the device since this would invalidate the warranty. If your product requires service, please contact your hearing care professional for assistance.

## Waste disposal

This product contains electrical or electronic equipment and should be disposed of carefully in the interests of your safety and the environment. Please contact your local hearing care professional concerning disposal of the product.

# Drilling template



# Specifications

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<b>Dimensions</b>	183 x 46 x 157 (DxWxH)
<b>Weight</b>	354 g
<b>Power Consumption</b>	1 W
<b>Power Supply</b>	15 V, 300 mA. External power supply 110 – 230 V AC
<b>Power Input</b>	Barrel Connector with 77 inch cord. Comes with wall outlet adaptors.
<b>Color</b>	Aluminum
<b>Light Type</b>	LED
<b>Frequency Range</b>	300 Hz – 2000 Hz (rel -3 dB)
<b>Approvals</b>	RoHS, FCC, CE

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

# Manufacturer:

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This product is made in Sweden by:

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Bergkällavägen 23  
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