

Installation and Operation Manual – AV TT001 Metal Siren Enclosure (DSC GS-001)

Oct 7, 2026 · @Ingeniero de Marca

Important notice: this manual is not an official DSC or TVC document. The manufacturer only publishes a [datasheet](#). Items marked *datasheet* come from it; everything else is general good practice for outdoor siren installation. Always follow the manuals for your siren and your alarm panel.

1. Overview

The AV TT001 is a sheet-steel enclosure that protects a 30 W siren (model SD30W) in outdoor installations (*datasheet*). It has no electrical parts: its job is to protect the siren from weather, impacts and tampering.

Item	Value
Product name	AV TT001 – Metal enclosure for 30 W outdoor siren
Brand	DSC
Model	GS-001
TVC code	DSC1220028
SAT code	45121600
Warranty	12 months

Source: [TVC product page](#).

2. Technical specifications

All data in this table comes from the official datasheet.

Feature	Specification
Material	Sheet steel

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Finish	Electrostatic polyester paint
Dimensions (H × W × D)	23 × 27 × 17 cm (9.1 × 10.6 × 6.7 in)
Cover	External, removable, closes with 2 screws
Tamper provision	2 switches (not included): cover opening and wall removal
Wiring	Knockouts for cable entry
Use	Outdoor
Compatible siren	30 W, model SD30W

3. Contents and required materials

The enclosure is sold alone; the siren and tamper switches are purchased separately.

Included: enclosure (back box) and cover with its 2 closing screws.

Not included:

- 30 W siren (SD30W or compatible).
- 2 normally closed (NC) tamper switches.
- Wall anchors and screws suited to the wall type.
- Siren cable (2 conductors) and tamper cable (2 conductors per tamper), gauge according to the distance to the panel.
- Cable glands or silicone to seal the cable entry.

Suggested tools: drill with masonry or wood bit, Phillips screwdriver, level, pencil, wire cutters and strippers, multimeter.

4. Safety precautions

- Installation must be performed by trained personnel (*datasheet*).
- Disconnect AC power and the panel battery before wiring the siren.
- Use a stable ladder or scaffold and protective equipment when working at height.
- Check for pipes or electrical wiring inside the wall before drilling.

- Do not sound the siren near your ears: a 30 W siren is extremely loud. Wear hearing protection during tests.
- Notify neighbors and the monitoring center before testing the siren.

5. Location and orientation

Mount the enclosure high on an exterior wall, in a visible spot, with the grille facing down.

- **Grille facing down:** prevents particle buildup (*datasheet*) and rain entry.
- **No water jets:** avoid areas exposed to direct water jets such as downspouts, sprinklers or pressure washing (*datasheet*).
- **Height:** out of hand reach; as a reference, 3 m (10 ft) or more above the ground.
- **Visibility:** a spot visible from the street increases the deterrent effect.
- **Distance to panel:** as short as possible, to reduce voltage drop on the cable.
- **Surface:** a firm, flat wall, so the wall tamper works correctly.

6. Installation procedure

1. Remove the 2 cover screws and take off the cover.
2. Hold the back box against the wall with the grille facing down. Level it and mark the mounting holes.
3. Drill, insert the anchors and run the cables (siren and tampers) from the panel to the installation point.
4. Pass the cables through the enclosure knockouts and fasten the back box to the wall.
5. Mount the siren inside the enclosure according to the siren manual, with the horn facing the grille.
6. Install the tamper switches (see section 7).
7. Connect the siren and tampers (see section 8).
8. Seal the cable entry with a cable gland or silicone.
9. Put the cover back on and tighten the 2 screws.
10. Perform the functional tests (see section 9).

7. Tamper switch installation

The enclosure accepts 2 tamper switches, not included (*datasheet*). Installing both is recommended.

Tamper	What it detects	How it is mounted
Cover tamper	Someone opening the cover	In its internal provision, so the closed cover keeps it pressed
Wall tamper	Someone pulling the enclosure off the wall	In its back-box provision, so the wall keeps it pressed

- Use normally closed (NC) switches: with the cover closed and the enclosure fixed, the circuit is closed.
- You can wire both tampers in series to one zone, or each to its own zone to know which one tripped.
- Check with a multimeter: continuity with everything closed, open circuit when each switch is released.

8. Connection to the alarm panel

The siren goes to the panel's bell output and the tampers go to a 24-hour zone. Terminal names vary by panel; confirm them in its manual.

From	To the panel	Notes
Siren (+) red	Positive bell output (BELL+ on DSC PowerSeries panels)	Observe polarity
Siren (-) black	Negative bell output (BELL-)	Check the output can supply the siren current
Tamper(s)	A free zone (Zn) and its common (COM)	Use the end-of-line resistor the panel requires

After wiring, program the panel:

- The tamper zone as **24-hour / tamper** (active even when the system is disarmed).
- The bell cut-off time according to local regulations.

- Bell output supervision, if the panel offers it.

9. Operation and functional tests

The enclosure is not operated: it works passively as long as the cover is closed and fixed. Perform these tests after installation and at each maintenance visit.

- ☐ **Siren:** run the bell test from the panel keypad. It must sound clearly through the grille.
- ☐ **Cover tamper:** with the system disarmed, remove the cover. The panel must show a tamper trouble or alarm.
- ☐ **Wall tamper:** with the cover open, release the wall switch by hand. The panel must log the event.
- ☐ **Restore:** close everything and confirm the panel shows no troubles.
- ☐ **Monitoring:** if the system is monitored, confirm with the central station that it received the test events.

10. Preventive maintenance

The datasheet calls for periodic checks of the screws and cleaning of dust and dirt; this table suggests a schedule.

Task	Suggested frequency
Check that cover and mounting screws are tight	Every 6 months
Clean dust, cobwebs and insects from the grille and interior	Every 6 months
Inspect paint for scratches or rust (touch up with anti-corrosion paint)	Every 12 months
Inspect the cable entry seal	Every 12 months
Full siren and tamper test (section 9)	Every 6 months or after a severe storm

Clean with a dry or slightly damp cloth. Do not use pressure washers or solvents.

11. Troubleshooting

Problem	Likely cause	Solution
Constant tamper trouble	Cover not fully closed or switch misaligned	Adjust the switch position and tighten the cover
Wall tamper does not trip	Switch not pressed against the wall	Adjust the switch or add a stop that presses it
Siren does not sound	Broken cable, reversed polarity or output not programmed	Check cable and polarity; verify panel programming
Weak sound	Voltage drop or blocked grille	Use a heavier cable gauge; clean the grille
Water inside the enclosure	Grille facing up or unsealed cable entry	Reinstall with the grille facing down and seal the entry
Rust on the sheet metal	Damaged paint	Sand, apply anti-corrosion primer and repaint

12. Warranty and support

The product has a 12-month warranty according to TVC. For technical support, visit the [TVC Forum](#) or your TVC branch.

Reference documents

- [AV TT001 product page at TVC](#)
- [Official datasheet in English \(PDF\)](#)