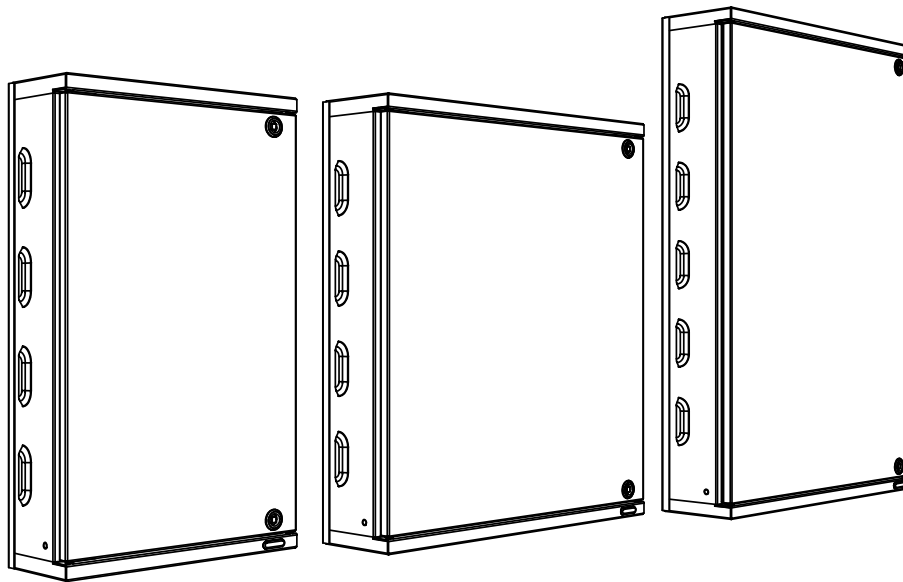


Tecom Discovery Enclosure Installation Manual



TSX-ENC-S, TSX-ENC-M, TSX-ENC-L

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ACMA compliance

When installed as directed, this product conforms to the standards set by Standards Australia on behalf of the Australian Communications and Media Authority (ACMA). Ensure that enclosure covers are fitted to maintain ACMA compliance.

Notice: This is a Class B product. In a domestic environment this product may cause radio interference, in which case the user may be required to take adequate measures.

Contact information

For contact information, see www.aritech.com.au

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Important information

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Installer responsibilities

The installer is responsible for determining whether this product is suitable for the intended application. Installation must be performed by qualified and certified professionals. Installation must comply with this manual, applicable codes, and authority requirements. The installer takes full responsibility for system compliance.

Safety

- Enclosures and batteries are heavy. Use correct manual handling techniques, and a second person where required.
- Hazardous voltages may be present. Disconnect power and use lockout/tagout before working on this equipment.
- Wear appropriate personal protective equipment (PPE).
- Inspect wiring and confirm absence of voltage before touching terminals or applying power.
- The door earth lead must always be reconnected when reattaching the door.
- Star washers must always be fitted when securing the fascia.
- All covers must be fitted to comply with radio interference certification.

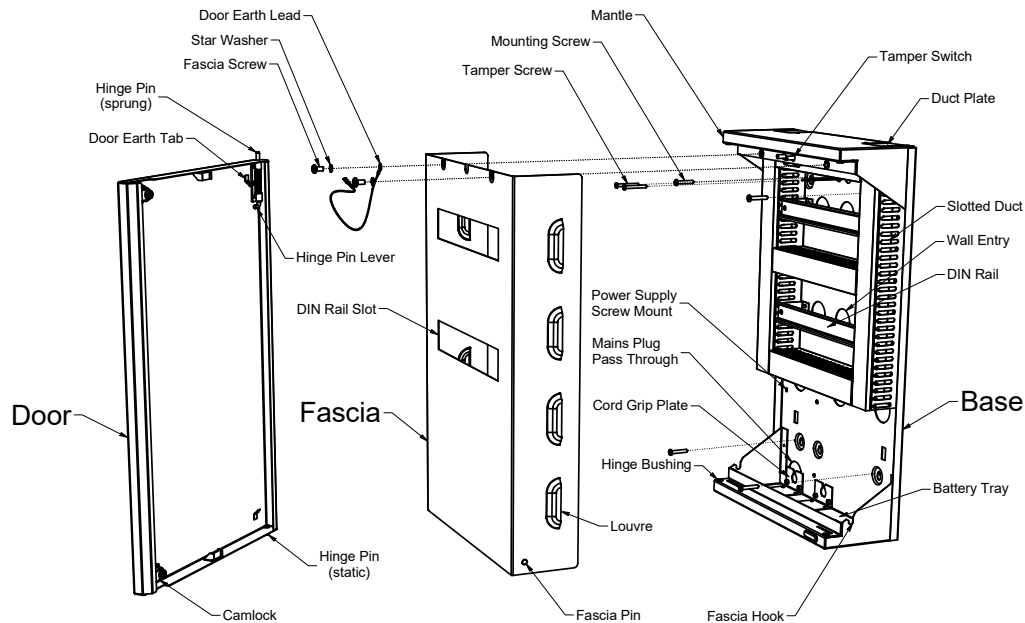
Product overview

Item	Small	Medium	Large
Part Number	TSX-ENC-S	TSX-ENC-M	TSX-ENC-L
Title	Tecom Discovery Enclosure Small	Tecom Discovery Enclosure Medium	Tecom Discovery Enclosure Large
Capacity*	28 Modules	48 Modules	72 Modules
Arrangement*	2 x 14M	2 x (12M + 12M)	3 x (12M + 12M)
DIN Rail Size	35 mm		
Distance DIN Rail to Fascia	50 mm Compatible with Discovery and many third-party switchgear products.		
DIN Slot Height	46 mm Compatible with Discovery and many brands of switchgear and blanks / pole fillers.		
Width	370 mm	560 mm	560 mm
Height	620 mm	620 mm	795 mm
Depth	135 mm	135 mm	135 mm
Weight **	9.5 kg	13.5 kg	18 kg
Camlock	2 x Panel Key 8 mm Square (pre-installed)		
Power Supply Compatibility	TSX-ENC-PSU2 / TSX-ENC-PSU4 / TSX-ENC-PSU6 (not included)		
Battery Bays	1	2	2
Battery Size	7 Ah, 12 Ah or 18 Ah (not supplied)		
Conduit Entry (Battery tray)	2 x Blanking plates (pre-installed) or 2 x Cord Grips (provided) or 2 x Ø25 mm Gland (not supplied) or 2 x Ø25 mm Rigid Conduit Adaptor (not supplied) or 2 x Ø25 mm Flexible Conduit Adaptor (not supplied)		
Duct Entry (Top face)	2 x Duct Plates (pre-installed). Supports closed, 50 mm x 25 mm duct entry or 50 mm x 50 mm duct entry. See section 9.		
Wall Entry	9 x Ø42 mm	8 x Ø60 mm	11 x Ø60 mm
Cable Management	40 mm x 60 mm Slotted Duct		
Environmental Rating	IP20		

* DIN rail modules are 18 mm wide.

** Weight does not include power supply, batteries, installed devices or cabling.

Part identification



Accessories

Item	Small	Medium	Large	Purpose
Panel key 8 mm Square	2	2	2	Unlock camlocks
Screw 4.8 mm x 32 mm	4	8	8	Fastening the enclosure to wall
Screw 4.2 mm x 32 mm	2	2	2	Fastening the tamper bracket to wall
Tamper lead (Yellow)	4	4	4	Connecting the tamper switches to the tamper monitor.
Door earth lead (Green/yellow)	1	1	1	Earthing the door to the base.
Cord grip	2	2	2	Used with the Cord Grip Plate to allow single cable entry.
Blank / Pole filler	2 x 12M	3 x 12M	3 x 12M	Close out unused DIN slots.

Tools and equipment required

Item	Purpose
Phillips #2 screwdriver (insulated)	Remove/attach fascia and power supply
3 mm Allen key	Remove/attach the Cord Grip Plate
M4 spanner / nut-runner / socket	Remove/attach the Duct Plate
Wall anchors for 4.8 mm x 32 mm (#10 x 1.25") screw	Fasten enclosure to wall
Wall anchors for 4.2 mm x 32 mm (#8 x 1.25") screw	Fasten tamper bracket to wall

Door removal

NOTE: The door is reversible, it can be configured to open to the left or right to suit the required installation location.

1. Unlock the top and bottom camlock with one of the 8 mm square panel keys.
2. Open the door.
3. Disconnect the door earth lead between the upper tab inside the door and the screw that holds the fascia.
4. While supporting the door, pull the hinge pin lever until the pin clears the hinge bushing in the base. Angle the door outward and lift upward until the hinge pin is clear.
5. To re-install the door, follow these directions in reverse, making sure to connect the door earth lead.

Door reversal

The door can be configured to open to the left or right to suit the installation location.

1. Remove the door as described in section 5.
2. Rotate the door so that the spring pin aligns with the top hinge hole on the opposite side of the enclosure.
3. Insert the bottom hinge pin into the lower hinge hole first.
4. Pull the spring pin lever, align the top hinge pin with the upper hinge hole, then release the lever to secure the door.
5. Confirm that the door opens and closes correctly, then reconnect the door earth lead.

Fascia removal

1. Remove the door.
2. Unscrew the two screws at the top of the fascia.
3. Pull the top of the fascia outward until it clears the mantle.
4. Lift the fascia upward until the fascia pin clears the fascia hook.
5. Retain the star washers with the fascia screws. They must be refitted when the fascia is replaced.
6. To re-install the fascia, follow these instructions in reverse order.

Cable entry via the battery tray

Each enclosure is pre-fitted with Cord Grip Plates that close out the cable openings in the battery tray. If cable entry is required, there are some options:

Cord grip

1. Remove the Cord Grip Plate.
2. Clamp the cord grip around the cable.
3. Snap the cord grip into the opening in the Cord Grip Plate.
4. Reattach the Cord Grip Plate in the reverse orientation so that the cable exits the enclosure.

NOTE: The left-most opening is linked to a larger opening in the rear face to allow for a mains plug to pass through.

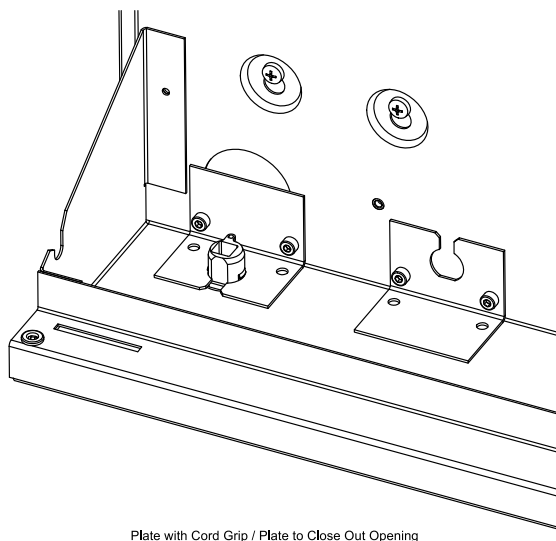
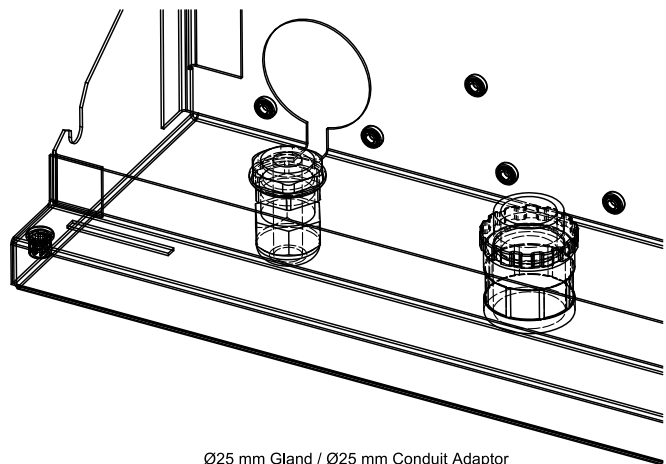


Plate with Cord Grip / Plate to Close Out Opening



Ø25 mm Gland / Ø25 mm Conduit Adaptor

Gland and conduit adaptors

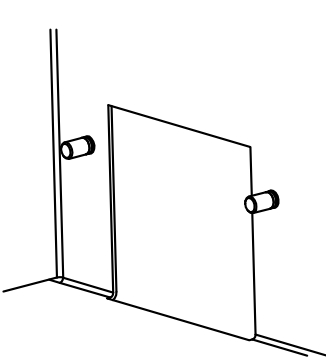
1. The openings are compatible with Ø25 mm glands and adaptors for both rigid and flexible conduit.
2. Remove the Cord Grip Plate.
3. Unthread the nut of the gland / adaptor.
4. Seat the gland / adaptor in the opening.
5. Reattach the nut to lock the gland / adaptor in place.

Cable entry via the top face

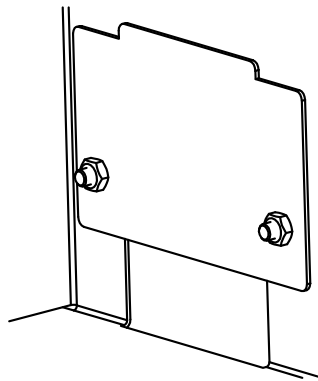
Each enclosure is pre-fitted with Duct Plates that close out the openings in the top face. The plate can be removed to support 50 mm x 50 mm duct or reversed to support 50 mm x 25 mm duct.

NOTE: It is easier to configure the Duct Plates prior to installation as the internal slotted duct can inhibit access.

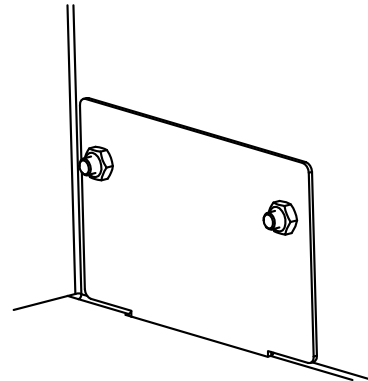
NOTE: Due to limited space behind the fitted internal slotted duct, a nut-runner may assist with accessing the required mounting nuts.



Removed (50 x 50 mm Opening))



Reversed (50 x 25 mm Opening)



Restored (Closed out Opening)

To remove the duct plate (Allow 50 mm x 50 mm duct entry)

1. Remove the two M4 nuts that secure the Duct Plate.
2. Extract the duct plate.

To reverse the duct plate (Allow 50 mm x 25 mm duct entry)

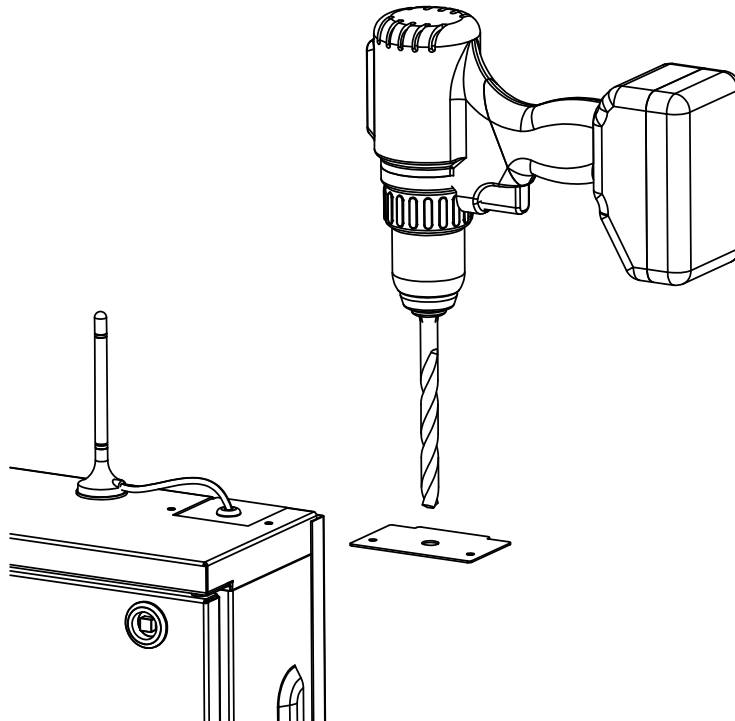
1. Remove the Duct Plate as above.
2. Place the Duct Plate over the threaded studs so that the tab on its bottom edge faces away from the wall.
3. Thread the M4 nuts onto the studs and tighten until they hold the Duct Plate securely.

To restore the duct plate (Close out the duct opening)

1. Insert the tab on the bottom edge of the Duct Plate into the square opening in the enclosure base.
2. Pass the holes of the Duct Plate over the threaded studs inside the mantle.
3. Thread the M4 nuts onto the studs and tighten until they hold the Duct Plate securely.

Other uses

When cable entry is required without ducts, removable Duct Plates allow off-site machining of openings for cable glands and grommets. It is recommended that all enclosures being installed be modified simultaneously for a consistent configuration and finish.



Machining of Removable Plates for Other Cable Entry Options

Installation

Site selection

Ensure that:

- The location is secure.
- The environment is suitable for the environmental rating of the enclosure.
- Required services are located in relevant proximity (for example, a GPO is available within reach of the fitted Power Supply's mains lead without requiring an extension lead or applying undue stress to the mains cable).
- The mounting surface can support the combined weight of the enclosure, devices, power supply, batteries and cabling.
- There is room to fully open the door to access and work on the interior of the enclosure from an appropriate, comfortable position.
- The enclosure has a minimum 30 mm ventilation gap on both sides. Increase this clearance in environments with poor ventilation or above-average ambient temperature. When multiple cabinets are installed, cabinets must be installed at least 60 mm apart and the vents must not be obstructed.
- All cable runs are within the maximum specified cable lengths for their respective devices.

Fastening the enclosure to the wall

IMPORTANT: If the power supply has a GPO plug, it must be installed before mounting the enclosure. The mains plug must pass through a rear opening that will be inaccessible once the enclosure is secured to the wall. If applicable, refer to section 9.4 before proceeding.

1. Each enclosure comes with a drill template that simplifies marking out. Place the template against the wall. Use a spirit level or plumb bob to make it level and tape it in place.
2. If the drill template is not available, refer to the copy in Appendix A. Use the dimensions provided to mark out the drill locations.

NOTE: Be sure to use/refer to the correct template for the enclosure being installed.

3. Drill the holes for the wall anchors being used.

NOTE: The two screws that hold the tamper bracket are a different size to the screws that hold the enclosure.

NOTE: If the power supply is pre-fitted it may obstruct the bottom-left mounting point. In this case, use the alternative mounting point located to its right.

4. Insert the wall anchors into the drilled holes.
5. If cables are to be routed through wall cavities, drill the necessary cable entry openings.
6. Align the enclosure to the drilled holes and fasten with the screws provided.
7. Remove the cable tie that holds the tamper bracket in place during transit.
8. Verify that the tamper bracket switch actuators pass through their corresponding holes, then secure the bracket to the wall using the two screws provided.

NOTE: The tamper bracket is designed to be attached to the wall to allow an activation to occur if the enclosure is removed from the wall improperly.

Tamper switch

Each enclosure has two tamper switches designed to detect unauthorised access to the enclosure.

- The right switch triggers when the door is opened.
- The left switch triggers when the fascia is removed.
- Both switches trigger when the enclosure is pulled from the wall (when the tamper bracket screws are fitted and secured to the wall).

Attach the tamper leads provided to each of the tabs on the two tamper switches.

The right switch is the primary tamper switch and is designed to be connected to a Tecom module's 'tamper' input.

The left switch is optional. If used, it is designed to be connected to a Tecom module's general 'alarm' input.



WARNING: Do not wire tamper switches in series or parallel. If both switches are to be used, each switch must be monitored independently to maintain compliance and ensure correct event reporting.

Power supply installation

Each enclosure is designed to accommodate one of the power supplies listed in section 2. If a power supply not mentioned in section 2 is to be used, it must be mounted/secured separately (externally) of the Tecom Enclosure.

If the power supply has a fixed mains lead, it must be installed before attaching the enclosure to the wall.

1. Remove the left Cord Grip Plate.
2. Pass the GPO plug through the opening in the rear face of the enclosure.
3. Feed the cable through the linked hole in the bottom face of the enclosure until the power supply sits in the battery tray.
4. Attach the power supply to the Power Supply Screw Mounts on the rear wall of the enclosure base using the three M4 x 5 mm screws provided.

Earthing

The enclosure must be earthed. Failure to earth can result in:

- Injury in the case of electrical failure or
- Performance loss.

Protective earth

The protective earth is received at the power supply via the GPO. It is transferred to the chassis via the screws that mount the power supply to the enclosure base.

When alternative power sources are used, protective earth must be connected to one of the power supply mounting points.

Chassis earth

The enclosure base receives the chassis earth from the power supply at its mounting points.

Chassis earth is transferred to the fascia via the two screws and star washers used to fasten the fascia.



WARNING: Always use a star washer with the fascia mounting screws.

Chassis earth is transferred to the door via the door earth lead. The door earth lead connects to the upper-most earth tab inside the door to the nearest screw that holds the fascia.



WARNING: Always refit the door earth lead when replacing the door.

Functional earth

Devices inside the enclosure receive functional earth from the terminals of the power supply.

Blanks / pole fillers

Blanks or pole fillers can be used to close out the unused spaces in the fascia.

Blanks are provided. The fascia accepts most brands of blank / pole filler if more are needed.

Break off the required length of blank filler.

Clip the section of blank filler into the opening in the fascia.

Accessories (sold separately)

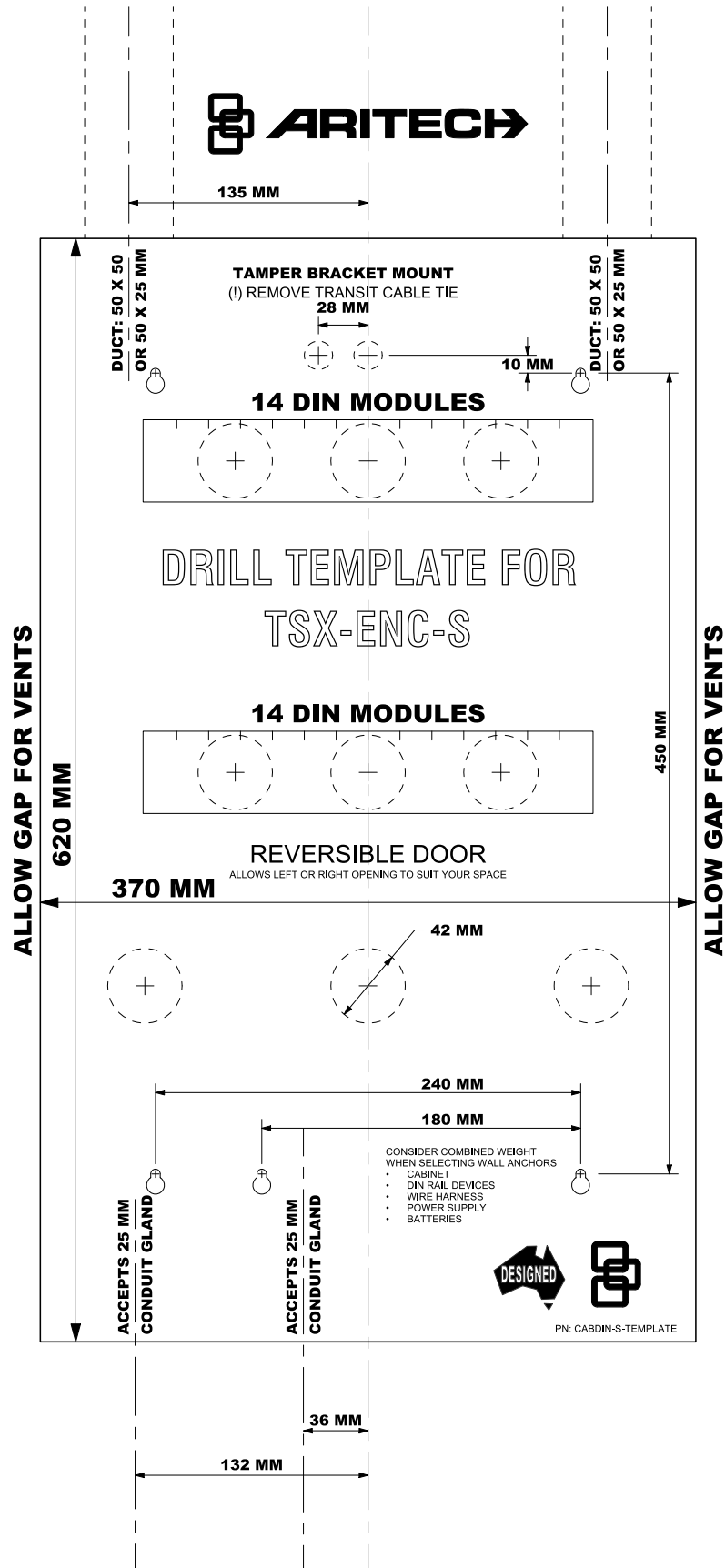
9.7.1 TSX-DINCLIP is designed to allow designated Tecom PCB devices to be fitted to the enclosure. Please refer to the Tecom Discovery Enclosure datasheets for a list of compatible devices.

Drill templates

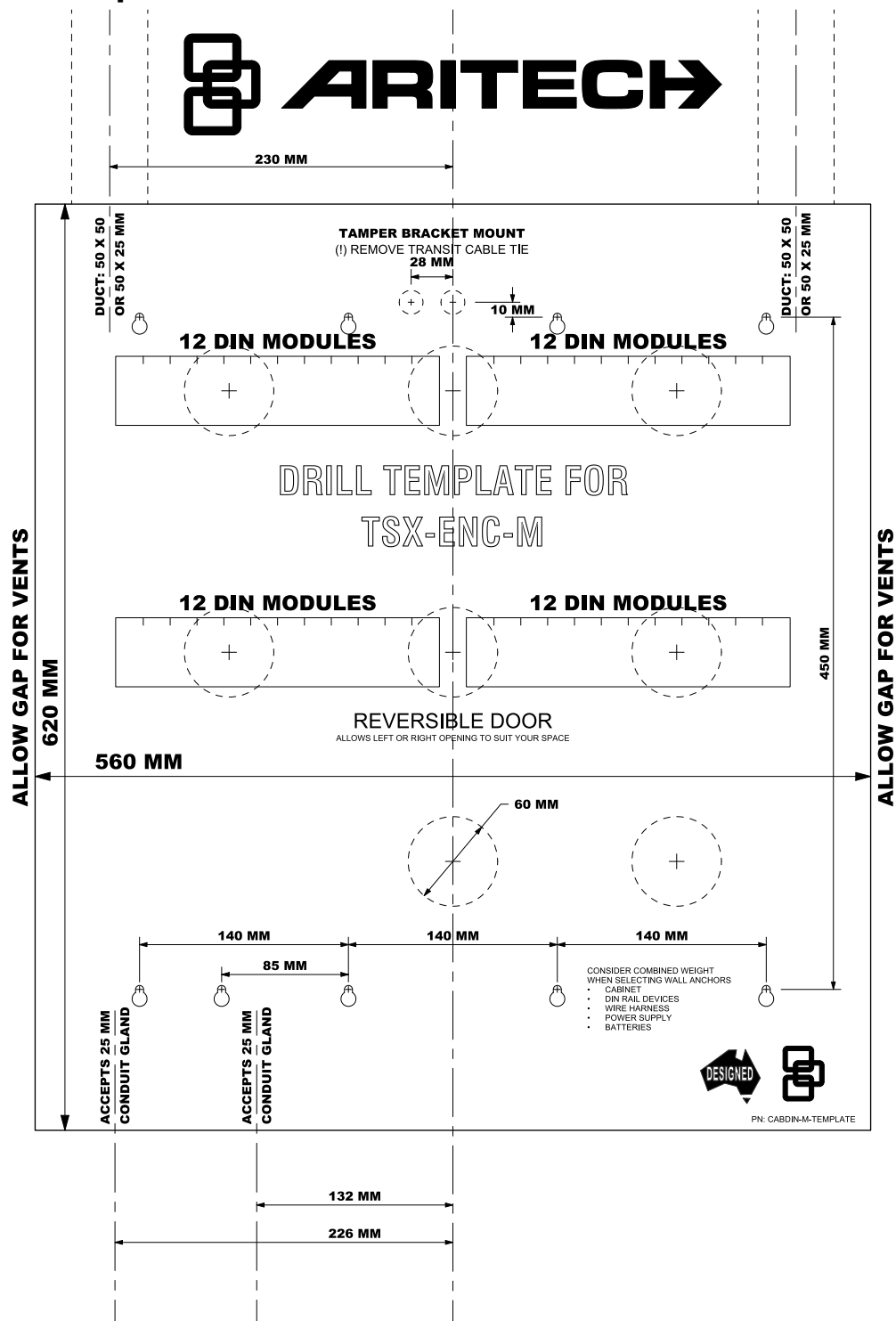


WARNING: These templates are not intended for printing and should be used only for reference. Full scale copies are available from the Aritech support portal. However, it should be noted that even minor printing errors may cause inconsistencies.

Small drill template



Medium drill template



Large drill template

