inverse G6-300 Installation Guide DCV-00477 S2 R06

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S2 Security Level Guide

No restrictions apply: customer-facing document.

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Chapter 1.

The G6-300 Outdoor Payment Terminal (OPT) is designed to be durable and tough, yet simple and secure to use.

To get the best use out of the G6-300, it should be installed correctly and properly maintained. This guide will walk you through installation and correct care for your new G6-300.

Note: If you are installing an OPT using an approved retrofit kit, the instructions with the kit supersede the instructions in this guide.

1.1. Where Can the G6-300 be Installed?

The G6-300 is a multi-purpose Outdoor Payment Terminal (OPT) designed for unattended use.

It operates in a range of outdoor environments in temperatures from -20°C (-4°F) through to +70°C (158°F)

It has been primarily designed for fuel station forecourts but can be installed into any physically secure cabinet that has been designed for the intended environment.

For outdoor environments, the G6-300 must be installed with its front face vertical, to prevent rain or condensation pooling inside.

Because it's usually used in fuel stations, this guide explains the requirements for mounting it into a fuel pump-head, however the steps are applicable to any cabinet.

Specific steps and precautions for pump head installation are highlighted.

Please, **always** use safety precautions when installing our products.

Chapter 2.

STOP There are hazards and safety precautions associated with installing, inspecting, maintaining or servicing this product.

Important: Before you start, READ! You need to understand the safety information in this manual. Hazards and safety precautions for tasks are always listed.

Fire, explosion or electrical shock could occur and cause death or serious injury if these safe service procedures are not followed.

2.1. Preliminary Precautions

Fuel stations can be a dangerous place to work - there are flammable fuels, vapours and high voltages. You should only install, inspect, maintain or service this equipment when you are fully trained and authorized to do so.

2.2. Evacuation and Barricading

If you need to access a pump/dispenser head, then you **must**:

- Evacuate all unauthorized persons and vehicles.
- Use safety tape or cones as a barricade to the affected unit(s).

2.3. Total Electrical Shut-Off

Before accessing the electrical components or the electronics of a pump/dispenser, you **must** carry out a total electrical shut-off of that unit.

To shut off electricity find the switch or circuit breaker and turn it to the "off" position.

If you can't turn off the power, STOP. Do not continue until the electricity has been safely turned off by you or someone else.

2.4. Read the Manual

Read, understand and follow this manual and any other labels or related materials supplied with this equipment. If you do not understand a procedure, call an Invenco-authorized service contractor.

Warning: For your own safety and that of others, you **must** understand the procedures before beginning work.

2.5. Follow the Regulations

Regulations exist to keep everyone safe. You are expected to follow:

- OSH regulations.
- National regulations and codes.
- State regulations and codes.
- Local regulations and codes.

Note: If you do not install, inspect, maintain or service this equipment in accordance with these codes, regulations and standards, it may affect the safe use and operation of the equipment, or lead to legal citations with penalties.

2.6. Replacement Parts

Use only genuine Invenco replacement parts and retrofit kits on your installation. Using parts other than genuine Invenco replacement parts could create a safety hazard and violate local regulations.

2.7. Safety Symbols and Warning Words

Throughout this guide you will see warnings and notes in boxes like below. These are used to let you know when you need to take extra caution in order to avoid hazards and/or potential injury to yourself or another person.

Always follow these instructions!

```
Warning: This alerts you to a hazard or unsafe practice that could result in death or serious injury.
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Note: This designates a hazard or unsafe practice which may result in minor injury or a legal issue.

2.8. Prevent Explosions and Fires

Fuels and their vapours will become explosive if ignited.

All fuels cause vapours when they are exposed to air and transferred between containers; spilled or leaking fuels cause even more vapours.

When a customer's tank is filled, vapours leak into the air around the tank and island, and these vapours can potentially catch fire or explode if they are exposed to a spark or flame.

This is why every single person on a fuel station forecourt must be aware of the danger of sparks and open flames and take precautions to avoid explosions and fires.

2.8.1. No Open Flames

Open flames from matches, lighters, welding torches or other sources can ignite the fuel and vapours present on forecourts.

There should **never** be an open flame on a fuel station forecourt for any reason.

2.8.2. No Sparks - No Smoking

Sparks can also start a fire or cause an explosion on a forecourt. Be safety conscious! Do not:

- 1. Smoke.
- 2. Light a match.
- 3. Use a lighter.
- 4. Use a mobile phone outside of your car.
- 5. Start or use power tools.
- 6. Create a flame of any kind.

Also beware of:

1. Static electricity.

Always touch the metal of your vehicle after you get out of it to discharge any electrostatic charge before you approach the dispenser island.

2.9. Working Alone

2.9.1 Best Practice

Always work with at least two people if possible; one to actively work and one as an assistant/backup. Ideally if you are working around high voltages, the backup/assistant should be trained in providing Cardiopulmonary Resuscitation (CPR).

2.9.2. Safety First!

Whether working alone or with someone else:

- 1. Advise station personnel where you will be working.
- 2. Warn station personnel not to turn the power back on while you are working on the equipment.
- 3. Use the OSH tag out and lock out procedures.

If you are not familiar with this requirement, refer to the information in the service manual and the OSH documentation.

2.9.3. Installer Certification

Many countries' authorities require people working in hazardous environments to hold additional qualifications that prove they are suitably skilled to perform work on fuel station forecourts.

Please ensure that you have the relevant certifications and that they are current, before attending to any site to perform installation work.

2.10. Safety First: Working with Electricity

Always:

- 1. Use safe and established practices.
- 2. Follow OSH Lock-Out and Tag-Out requirements before carrying out any service or installation work.
- 3. Check all devices before use.
 - Is the wiring in good condition?
 - Is the grounding connection firmly attached?
 - Are all sealing devices and compounds in tact and in place?

Never:

- 1. Use devices if they have any damage.
- 2. Skip over safety procedures for any reason.

Faulty wiring or unsafe procedures can cause a fire, explosion or electrical shock.

Station employees and service contractors must understand and comply with these guidelines completely to ensure safety while the equipment is down.

2.11. Hazardous Materials

Some materials present inside electronic enclosures may present a health hazard if not handled correctly.

- Always wear gloves if practical to do so.
- Keep your hands away from your eyes and mouth during installation.
- Wash your hands as soon as possible.

2.12. Informing Emergency Personnel

Emergency personnel will need the following information:

- · Location of accident (e.g. address, front/back of building).
- Nature of accident (e.g. possible heart attack, run over by car, burns).
- Approximate age of victim (e.g. baby, teenager, middle-age, elderly).
- Whether or not victim has received first aid (e.g. stopped bleeding by pressure).
- Whether or not victim has vomited (e.g. if swallowed or inhaled something).

Warning: Oxygen may be needed at scene if gasoline has been ingested or inhaled. Seek medical advice immediately.

2.13. Computer Programs and Documentation

All Invenco Group Ltd. computer programs (including software on discs and within memory chips) and documentation are copyrighted by, and shall remain the property of, Invenco Group Ltd. Such computer programs and documents may contain trade secret information.

The duplication, disclosure, modification, or unauthorized use of computer programs or documentation is strictly prohibited unless otherwise licensed by Invenco Group Ltd.

2.14. Approvals

Invenco develops and maintains its hardware and software products using industry-standard quality processes and is audited by the MasterCard TQM (Terminal Quality Management) scheme.

The G6-300 OPT has the following approvals:

- CAN/CSA C22.2 No. 62368-1-14 (Safety Audio/video, information and communication technology equipment)
- CSA C22.2 No. 213-17 (Hazardous location safety Class I Division 2)
- EN 300 300 & ETSI 301 489-3 (in conjunction with ETSI 301 489-1) for Radio
- EMV standards (Security)
- EN 55024 (Immunity)
- EN 55032 (Emissions)
- FCC certification (Part 15.225, 15.207 transmitter)
- IC certification (RSS-Gen Issue 5 section 8.8 & RSS-210 Issue 9 Section B.6)
- IEC/EN/UL 62368-1 (Safety Audio/video, information and communication technology equipment)
- PCI (Payment Card Industry)
- TQM (Quality)
- ISA 12.12.01 (Hazardous location safety Class I Division 2)

2.14.1 European Directives



The G6-300 complies with the necessary European Directives for the CE mark.

2.14.2 FCC

FCC ID: 2AC7B-G6300OPT FCC ID: 2AC7B-G6300V2OPT (For Hardware ID: XXX-XX1XXXXXX) (For Hardware ID: XXX-XX2XXXXXX)

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.

Note: The grantee is not responsible for any changes or modifications not expressly approved by the party responsible for compliance. Such modifications could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

2.14.3 Hazardous Locations

The G6-300 is suitable for use in Class I, Division 2, Group D, Temperature Class T4 OR non-hazardous locations only.

WARNING: EXPLOSION HAZARD – Do not connect or disconnect equipment unless power has been removed or the area is known to be non-hazardous.

WARNING: EXPLOSION HAZARD – Substitution of any components may impair suitability for Class I, Division 2.

WARNING: EXPLOSION HAZARD – Batteries must only be changed in an area known to be non-hazardous.

Please refer to "DCV-00119 G6 OPT Control Drawing" for further information on installation in a Class I, Division 2 hazardous location. Also refer to the ANSI/NFPA70 (US National Electrical Code) and ANS/ISA RP12.06.01 (Wiring Methods for Hazardous Locations).

2.14.4 Industry Canada Compliance Statements

IC ID: 12614A-G6300	(For Hardware ID: XXX-XX1XXXXXXX)
IC ID: 12614A-G6300V2	(For Hardware ID: XXX-XX2XXXXXX)

This device complies with Industry Canada's license-exempt RSSs. Operation is subject to the following two conditions:

- 1. This device may not cause interference; and
- 2. This device must accept any interference, including interference that may cause undesired operation of the device.

Le resent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

- 1. l'appareil ne doit pas produire de brouillage, et
- 2. l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.



3.1. Location of Features

Fig. 3.1: G6-300 Front Features

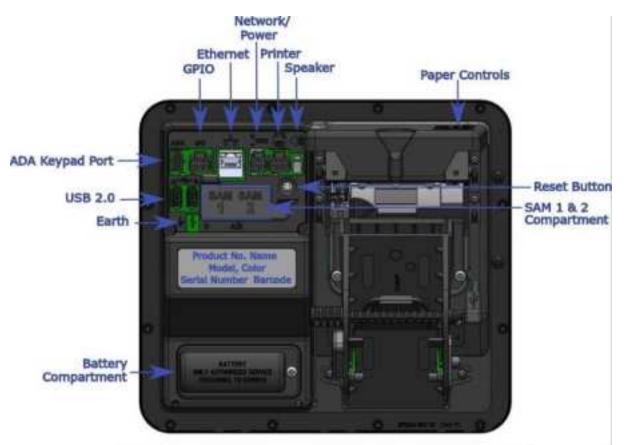


Fig. 3.2: G6-300 Rear Features

Chapter 4.

4.1. In the box

Inside the box is a small plastic bag that contains a spindle and a gasket.



Fig. 4.1: Accessories bag



Fig. 4.2: Spindle to hold printer paper



Fig. 4.3: Gasket for mounting G6-300 to pump head

4.2. Consumables

If the G6-300 has a printer fitted (most of them do), then a roll of paper should be installed (see Chapter 17).

Invenco's recommended paper is part number CP0002. The specification for this paper is:

- Thermal paper, top-coated (BPA free can be used)
- Paper weight = 60 to 80gsm
- Width = $57 \pm 1 \text{ mm}$
- Roll Diameter = 110mm max
- Core Diameter = 12mm
- Recommended Suppliers
 - Nippon Paper
 - TF60KS-E
 - Oji Paper
 - FTP-020PU001 (58mm)
 - PD105R
 - FTP-020P0701 (58mm)

Use good-quality paper in the G6-300 to reduce the build-up of dust and fibres, and to extend the life of the printer.

Chapter 5.

Green highlights show the standard mounting points for a new installation.

Each mounting point has an M4 threaded brass insert. The maximum depth into the G6-300 case is 8mm

See the Drawings at the end of this guide for panel cut-out information.

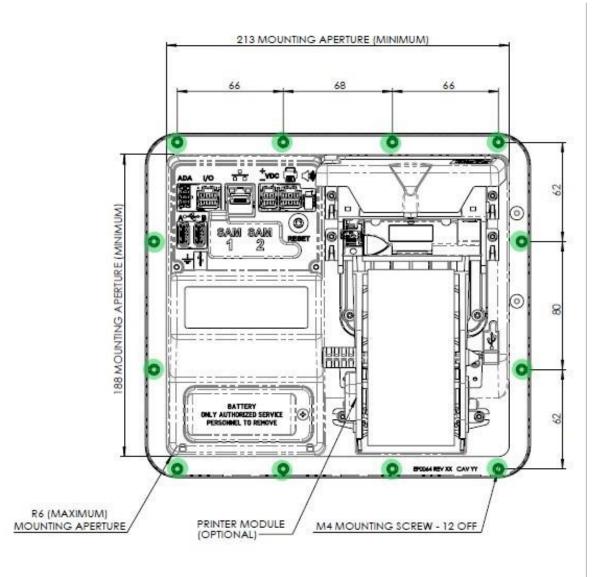


Fig. 5.1: Location of mounting points (in green).

Chapter 6.

6.1. Installing a Brand New OPT

In most cases a new installation must be done by the pump manufacturer, not a third party. Each pump has safety certifications that can be invalidated if anyone other than the manufacturer modifies it. Before a G6-300 can be installed, the pump enclosure must meet the following standards:

1. **Fire.** The enclosure must be designed to meet the requirements of ISO/EN 60950-1 for fire enclosures.

2. ATEX (Explosive Atmospheres).

The G6-300 has openings that prevent it being gas-tight. Because of this, it should be installed away from all hazards. Refer to local laws and regulations for hazardous zones to work out the best mounting place for the G6-300. The pump or cabinet that the G6-300 is mounted in should also be designed to prevent a dangerous build-up of explosive gases.

3. Security.

The pump or cabinet should offer physical security to protect the public from the hazards within, and to reduce the ability of anyone to tamper with the OPT.

4. Power & Data.

- a. The pump or cabinet must provide mains power. The requirements are:
 - i. A permanently-wired connection or a socket to plug it into.
 - ii. A protective earth connection.
 - iii. The outlet **may** be switched if it is a socket, and **must** be switched if it is permanently wired.
 - iv. We recommend one Power Supply Unit (PSU) per G6-300. The use of two G6-300s on a single PSU may lead to erratic start up behaviour and is not recommended. If using two G6-300s to one PSU, both must have power applied at the same time to reduce this risk.
- b. The pump or cabinet must provide an Ethernet data connection. The requirements are:
 - v. Capable of at least 10Mbps (preferably 100Mbps).
 - vi. The connection must be either a socket into which a standard Ethernet patch cable can be connected, or a cable that is terminated in a standard RJ45 plug suitable for direct connection into the OPT LAN socket.
 - vii. Minimum cable standard should be Cat5e.
- c. The enclosure may provide an alternative data connection for terminals that have optional communications modules installed. Please consult with Invenco for what options are available.

5. Accessibility.

The enclosure must be designed and mounted so that disabled persons are able to operate the OPT. Height must be compliant with PCI 5.0 standards. The G6-300 has an optional ADA

keypad that can be purchased and installed if required in order to meet this compliance.

6. Materials.

The enclosure and all its components must be constructed of durable materials suitable for the intended location.

7. Door cut-out.

- d. Use the wireframe in Chapter *22 Drawings* at the end of this manual to determine the extra space required for the front of the terminal (the terminal is larger than cut-out).
- e. The edge of the cut-outs should be smooth and free of burrs, and the surface of the door around the cut-out should be clean, and planar within ± 1mm.

8. Water-Tightness.

The G6-300 is rated for IP65 around the screen and keypad, and IP54 for other front side apertures. The parts sitting inside the pump/pedestal enclosure are designed to reduce the likelihood of rain splashes entering the electronics but the enclosure must provide protection from water.

The door should have a water seal against the enclosure, and there should be good drainage and/or a system to reduce excessive condensation build-up and dripping.

- 9. Protection from Weather Extremes. | While the G6-300 is intended for use outdoors, exposure to direct sunlight and/or heavy rain can affect customers' experience using the product. | The pump or enclosure should provide a canopy that prevents the OPT from being exposed to direct sunlight and heavy rain. | If the OPT cannot be protected from direct sunlight, a warning sign should be provided close to the OPT advising that the screen may become too hot to touch.
- 10. In humid climates where the temperature regularly falls below 5°C it is probable that occasional condensation will occur overnight inside the OPT cabinet, which can cause printer paper jams. In this case, it is recommended, in the absence of any other heat source, that a thermostatic heater is installed inside the cabinet, with attention to possible overheating.

11. Placement.

The G6-300 must always be installed in an upright (vertical) position with no horizontal tilt.

12. Hinging.

Use the following diagrams as a guide when designing an enclosure and/or door to house the G6-300. This will ensure there is a clearance between the G6-300 housing and the opening.

Note: Invenco Recommends **Right-side hinging only**. Hinging on the left side may cause cables to be pulled out.

Hinging Option 1

For models without an internal printer, or for models with a printer where the paper has been mounted with the spindle moving right to left through the paper roll (with the point to the center of the terminal):

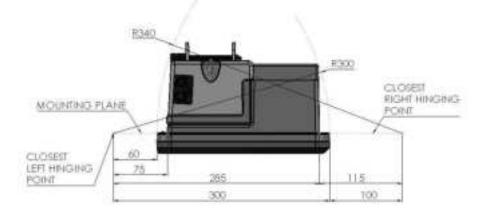


Fig. 6.1: G6-300 Side hinging diagram, spindle pointed left or with no printer.

Hinging Option 2

For models with an internal printer, where the paper has been mounted with the spindle moving left to right through the paper (with the point ending by the right side of the terminal):

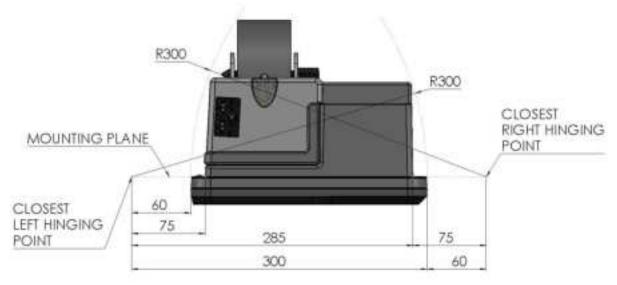
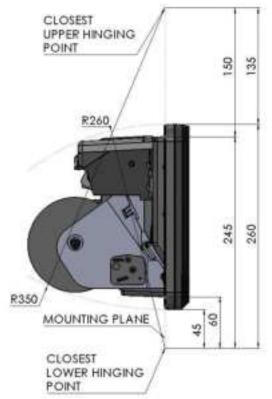
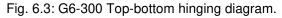


Fig. 6.2: G6-300 Side hinging points diagram, spindle pointed left.

Hinging Option 3

Top and bottom hinging points, suitable for all models.





Chapter 7.

Tools Required to Mount the G6-300

- 12 x M4 screws of the correct length to attach the OPT to your pump/cabinet.
- A screwdriver to fit the M4 screws.
- Philips #1 or Flat 5mm screwdriver for connections on the power supply.
- Small adjustable spanner for earth connections inside the cabinet.
- Cable ties.
- Side cutters to trim the cable tie(s).
- You may require other tools if retrofitting into a non-standard enclosure.

Warning: Do **not** use power tools if working on a fuel station forecourt. Any spark could cause a fire or explosion.

Chapter 8.

Installing into a New Pump or Cabinet

Step	Instruction	
1.	Unpack the G6-300 as per the Invenco Shipping Guide.	
2.	Open the pump/cabinet door.	
3.	Attach the gasket to the back of the unit, following the separate instructions below.	
4.	Hold the G6-300 outside the pump/cabinet and locate at least one of the top mounting	
	screws. Loosely screw it in.	
5.	Start several of the remaining support screws around the edge of the G6-300.	
6.	Check that the G6-300 is aligned with any features on the pump/cabinet door and then	
	tighten the screws.	
7.	Insert and tighten all remaining screws.	
8.	Once the G6-300 is secure, move onto the wiring section to complete installation.	

1. Lay the rubber gasket over the back of the G6-300 unit, placing the long tamper prongs to the right-hand side as per the photo. 2. Line up the tamper prongs with the corresponding holes and gently push them into place. 3. Continue to line up prongs and mouldings around the edge of the OPT to the gasket and gently push down. 4. When pressed down the full way around, the gasket will sit flush.

Fig. 8.1: How to Attach the Gasket

Chapter 9. Upgrading an Existing Invenco Outdoor Payment Terminal

The G6-300 is designed to fit into the existing cut-out created for an earlier G6 model to allow for an easy upgrade.

It will also fit onto legacy upgrade kits for those customers who have upgraded in the past from a G5 to a G6-100 or G6-200.

Step	Instruction	
1.	Make sure that the terminal is not in use.	
2.	Open the enclosure door.	
3.	Use the reverse paper feed button to feed the paper out of the terminal, then remove the	
	paper roll. (Models with printer only).	
4.	Switch off the mains power.	
5.	Carefully cut the cable ties holding cables in place to the existing OPT.	
6.	Disconnect the low-voltage power cable and discard it.	
7.	Disconnect the ethernet cable and put it aside for reuse.	
8.	Disconnect the earth cable.	
9.	Loosen then remove the screws holding the old OPT to the door.	
10.	Remove the old OPT from the door and package it for disposal or return.	
11.	Prepare the pump for the new terminal by scraping off any pieces of old gasket that may	
	have stuck down over time. Clean any old adhesive residue from the mounting surface.	
12.	Remove the new G6-300 from its packaging and inspect it for damage. Note that the	
	sealing gasket is also in the carton.	
13.	Place the G6-300 face down onto a soft, clean surface and attach the sealing gasket	
	following the instructions in the previous section (above).	
14. Place the G6-300 carefully into the cut-out in the door and align it with the screw		
	brackets if this is a retrofit.)	
15.	Loosely place all the screws, then check alignment before tightening them.	
16.	Plug in the new power cable and the saved ethernet cable (refer to Chapters 25 — 28).	
17.	Connect the ground wire.	
18.	Use new cable ties to gather all the cables together, then close the door making sure not to	
	snag or pinch any cables.	
19.	Have your work inspected if necessary, then switch on the mains power.	
20.	Load a paper roll and feed the paper through into the printer (see Chapter 32).	
21.	Check that the G6-300 has come online correctly, then close the cabinet/pump door.	

Chapter 10.

The G6-300 has been certified using a one-to-one ratio of G6-300 to power supply unit. All other configurations are not certified.

The certified power supply for installations world-wide is the Meanwell RS-100-24. To fully meet safety requirements, we recommend also purchasing the Meanwell TBC-07 Terminal Cover which clips on over the terminals of the power supply.

Chapter 11.

Three connections need to be made to the G6-300:

- 1. Protective Earth.
- 2. Ethernet LAN.
- 3. DC Power supply.

The DC power supply cable also needs to be connected to the power supply.

11.1. Protective Earth

The G6-300 is provided with an Earth Tab and is recommended to be earthed.

The tab must be connected to the pump (or cabinet) frame to provide protection from both power faults and static discharges. The earth wire thickness must be minimum 1.5mm² (or 16awg) and both it and the earth stud must meet local regulations.

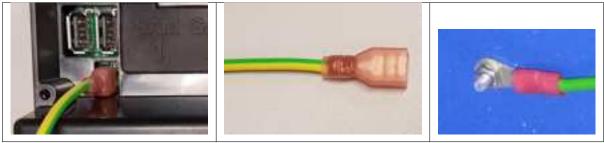


Fig. 11.1: Protective Earth

11.2. Ethernet LAN

The Ethernet cable is plugged into the correct connector on the rear of the G6-300:



Fig. 11.2: Ethernet connection

11.3. DC Power Supply

The low-voltage DC Cable is plugged into the correct connector on the rear of the G6-300:

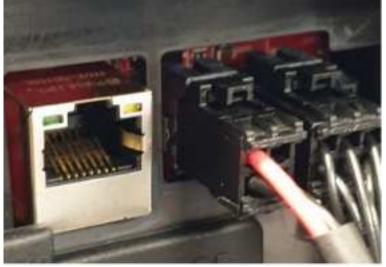
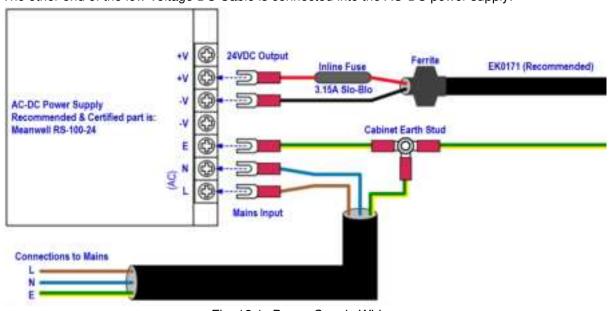


Fig. 11.3: Low-voltage DC cable

The low-voltage DC cable carries the part number EK0171, and it can be obtained from Invenco partner companies.

Chapter 12.

Main Power Supply Wiring



The other end of the low-voltage DC Cable is connected into the AC-DC power supply:

Fig. 12.1: Power Supply Wiring

Warning: Once all the wiring to the power supply terminals has been completed, install the terminal cover (TBC-07) to prevent accidental contact with the live mains connections

Chapter 13.

When all the cables have been installed, use cable ties to provide strain relief.

Ensure that all cables are tidy and cannot become snagged or pinched when the door of the cabinet is opened and closed.

Warning: Local regulations may also require that the installation is electrically tested and certified BEFORE switch-on, and periodically over the life of the unit

Chapter 14.

Once the installation is complete and the wiring is certified (if necessary), the main power can be switched on.

14.1. Normal Start-Up

The G6-300 takes a couple of minutes to complete its start-up phase. During this, several standard information screens will display. There may be other screens as well, depending on customer configuration. Start-up screen:



Fig. 14.1: G6-300 Start up screen.

Connecting to ethernet screen:



Fig. 14.2: Trying to establish ethernet connection.

When the terminal has successfully connected to the Ethernet LAN it will display the following screen:

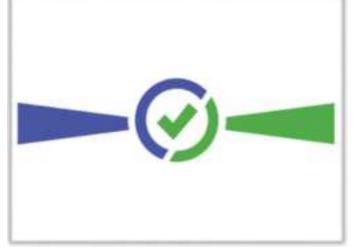


Fig. 14.3: Ethernet connection established.

After this the start-up will continue. The screens that are presented will vary depending on individual customer configuration.

If a screen showing "One moment please..." is presented, it means that the G6-300 requires its configuration to be set up. Please follow the directions in **Invenco Document DCV-00260**.



Fig. 14.4: Service App settings are available.

14.2. Edit Configuration

The G6-300 should have been configured during staging; however sometimes things change, and you may need to modify various settings.

Please see **Invenco document DCV-00260** for information on accessing and changing the G6-300's configuration options; alternatively, your helpdesk will be able to assist you over the phone.

Chapter 15.

The G6-300 is a secure device, and it contains various technologies that help it detect if someone tries to tamper with it.

Occasionally a G6-300 tamper-detection may be triggered after the device has been staged and before installation, e.g. if the G6-300 was dropped onto a hard surface, that may trigger a tamper-detection event.

If, on power-up or at any time when the G6-300 is powered, a tamper is detected, the G6-300 will immediately lock out of "normal" operation and enter a "tampered" state. When this happens, the G6-300 will not process any transactions and, depending on the nature of the tamper it may be almost completely unresponsive.

If a tamper has been detected, after power-up the G6-300 will display this screen:

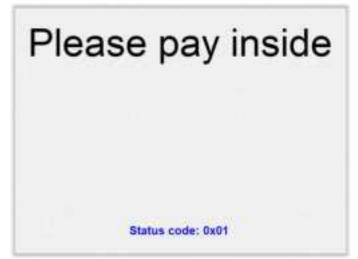


Fig. 15.1: Tamper has been detected.

The lights in the Card Reader slot will flash RED at about five times per second (i.e. rapid) if a Destructive Tamper has been detected:

A Destructive Tamper cannot be restored on-site and requires the G6-300 to be returned to the factory for service/repair.

Chapter 16.

16.1. Cleaning

The G6-300 is designed to be low maintenance.

Daily cleaning:

Wipe with a soft damp cloth using only water.

If dirt or grime builds up:

- Use a diluted mild detergent and wipe with a soft cloth.
- Dry the screen using a lint-free or microfiber cloth.

Things to watch out for:

- Always clean off excess detergent.
- Do not use a high-pressure water stream to clean your G6-300. Water pressure may damage the card reader or printer chute.
- Do not rub the display if it is dry dust or dirt can scratch the anti-reflective coating.
- Do not use petroleum based solvent cleaners, they will damage the surface and shorten the life of your product.
- Over time the printer may build up dust and/or debris from the paper cutting function. Please do not clean this yourself refer cleaning to a qualified service agent.

Chapter 17.

How to Load Paper

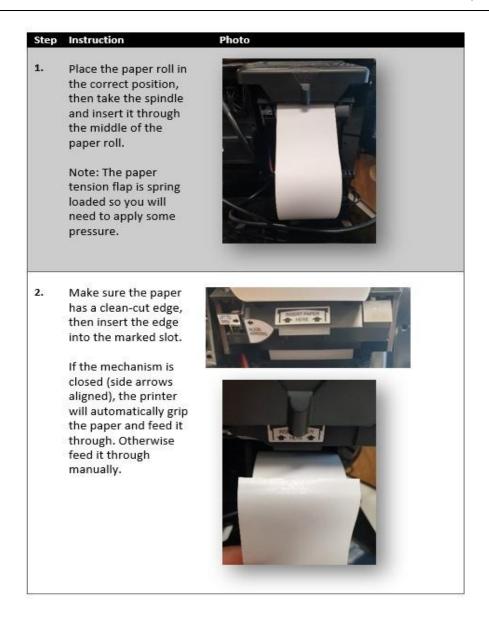




Fig. 17.1: How to Load Paper.

Chapter 18.

If you need to clear a paper jam, remember:

- Don't use anything sharp it could damage the printer.
- Be gentle. If you take the paper roll out, you should be able to see where the paper is jammed and free it with a little bit of patience and a gentle touch.
- Any damage done to the printer while clearing a paper jam is not covered by warranty.

Step	Instruction	Photo
1.	Remove the paper roll if necessary by pulling out the spindle. You can then lift the roll up and out of the way.	

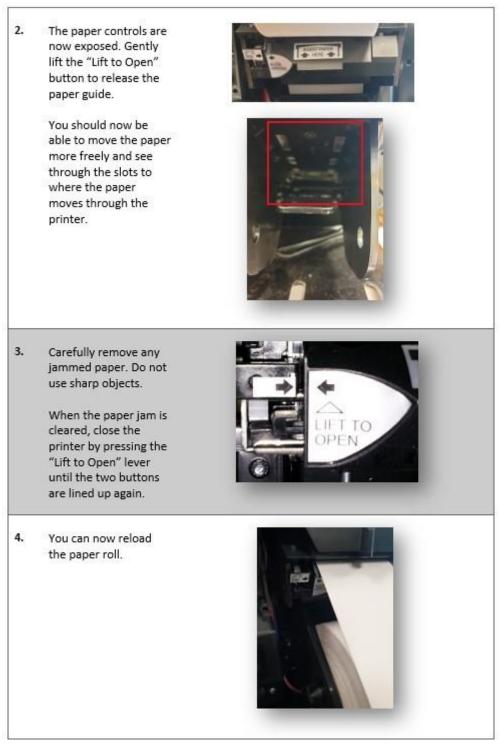


Fig. 18.1: How to clear a paper jam.

19.1. Built in Security

The G6-300 has built-in tamper detections, but you should also regularly check your G6-300 for signs of tampering or alteration.

If it looks different to normal, then there could be a hidden camera or PIN-disclosing bug – you might have a problem that threatens customer security.

19.2. Extra Security Checks

Use this section to carry out extra security checks, and if you're still not sure about your G6-300 then call Customer Support.

The following pages include photos and descriptions of what the G6-300 components *should* look like. If your G6-300 looks different in any way, DO NOT use it.

Follow the escalation procedure below if you have any doubts at all about the integrity of your OPT.

19.3. Escalation

If you think that your G6-300 has been tampered with:

- Contact the vendor's security person or support desk immediately.
- If neither of those contacts are available, contact Invenco's security officer at the Auckland address detailed at the end of this document.
- Notify local law-enforcement immediately.

Chapter 20.

The G6-300 has a smooth finish with an uninterrupted surface. Any breaks or uneven surfaces should be inspected as a potential security concern.

20.1. Keypad

- 1. The G6-300 keypad has a matt black surround with matt key tops.
 - a. The key-tops are back-lit.
 - b. The numbers must be illuminated when the keypad is active. If the numbers don't light up when the keypad is active, then check the keypad for signs of tampering or an overlay.
- 2. The matt black surround is a flush mount to the G6-300 front fascia.
- 3. If it appears not to be flush with the front fascia surface, check to see why.
- 4. The key-pad privacy shield is a smooth, uninterrupted surface, and should be inspected for uneven surfaces, cracks or holes that could be as a result of a PIN disclosing camera being placed on/into the OPT.



Fig. 20.1: Example of keypad and privacy shield.

20.2. Card-Reader Slot and Contactless Reader

What to check for:

- Are there any wires of any kind coming out of the Card Slot?
 - There should be no visible wires at all on or around the Card Slot.
- Is the OPT finish uninterrupted and consistent across the Card Slot?
 - There should be no cracks, holes or bumps of any kind.
- Does the card slot acceptor light:
 - Flash green when it is ready and waiting to accept a card?
 - Turn red when a card is inserted and a transaction is processing?
 - Turn blue only when the card can be safely removed?
- Does the Contactless Reader:
 - Show one steady green light when ready to accept a payment?

Note: Remember, if your G6-300 does not look or act like it should, do not use it. Contact Invenco immediately for further assistance.



Fig. 20.2: Front of card slot.



Fig. 20.3: Card slot insertion light.



Fig. 20.4: Left hand close-up of card slot.



Fig. 20.5: Right hand close-up of card slot.

21.1. How to Uninstall a G6-300

Step	Instruction			
1.	To remove an existing Invenco Outdoor Payment Terminal (OPT):			
2.	Make sure that the terminal is not in use.			
3.	Open the enclosure door.			
4.	Use the reverse paper feed button to feed the paper out of the terminal, then remove the paper roll. (Models with printer only).			
5.	Switch off the mains power.			
6.	Carefully cut the cable ties holding cables in place to the existing OPT. Do not cut any other cable ties.			
7.	Remove the ground wire and unplug the ethernet and low-voltage power cables.			
8.	 Unscrew the screws holding the OPT to the door. There will be either: 12 screws (if the terminal was installed new), or; 4 screws going into a pair of adaptor brackets if the OPT was retrofitted. In this case, remove the brackets if they are in the way, otherwise leave them in place. 			
9.	Carefully lift the OPT out of the enclosure and package it for disposal or return.			

21.2. How to Reinstall a G6-300

Step	Instruction			
1.	Prepare the terminal by removing any traces of existing sealing gasket with a soft			
	scraper and/or isopropyl alcohol.			
2.	Remove the G6-300 from its packaging and inspect it for damage.			
3.	Place the G6-300 face down on a soft, clean surface, and attach the new sealing gasket.			
4.	Place the G6-300 carefully into the cut-out in the door and align it with the screw-ho			
	(or brackets if there has been a previous retrofit).			
5.	Loosely place all the screws, check the alignment is correct and then tighten the screws.			
6.	Plug in the power cable and the LAN cable.			
7.	Connect the Ground wire.			
8.	Use new cable ties to gather all cables together, then close the door making sure not to			
	snag or pinch any of the cables.			
9.	Reload a paper roll and feed the paper through into the printer.			
10.	Check that the G6-300 has come online correctly, then close the cabinet/pump door.			
11.	If this is a replacement G6-300 (i.e. not the same one removed) you may need to			
	configure it for proper operation. Please see Chapter 29 of this guide for information.			

22.1. Dimensions

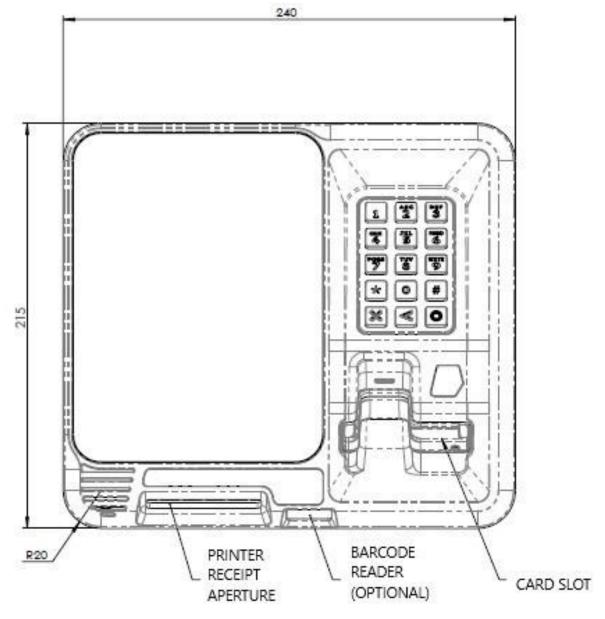


Fig. 22.1: G6-300 Front Dimensions.

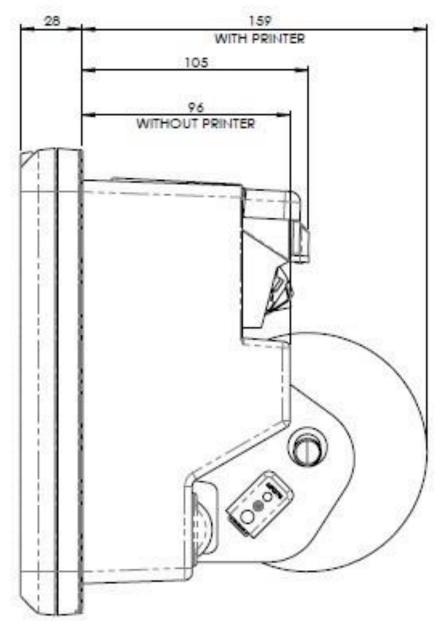


Fig. 22.2: G6-300 Side Dimensions.

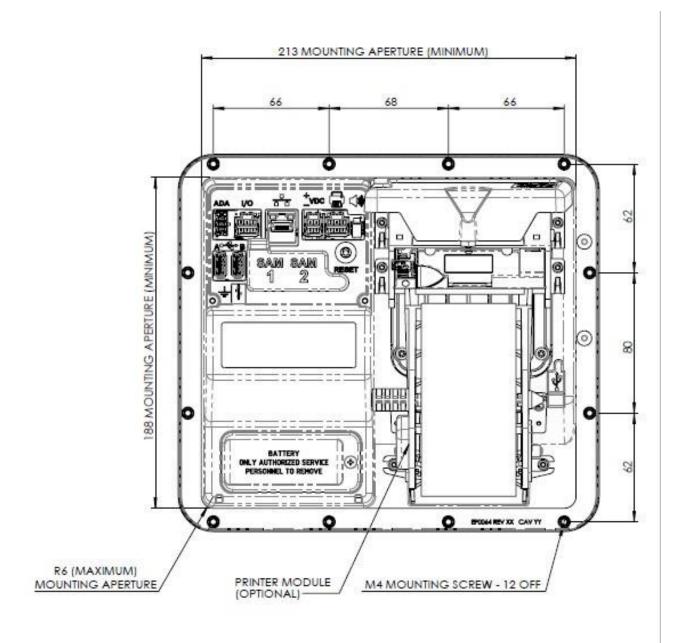
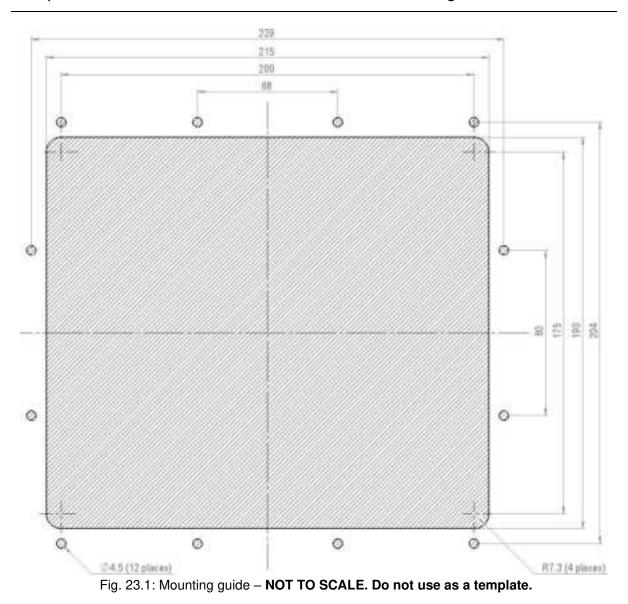


Fig. 22.3: G6-300 Rear Dimensions & Mounting Points.

Chapter 23.

Mounting – New Installation



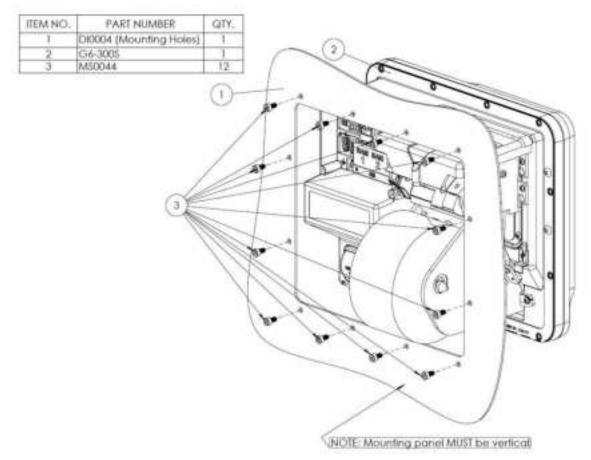
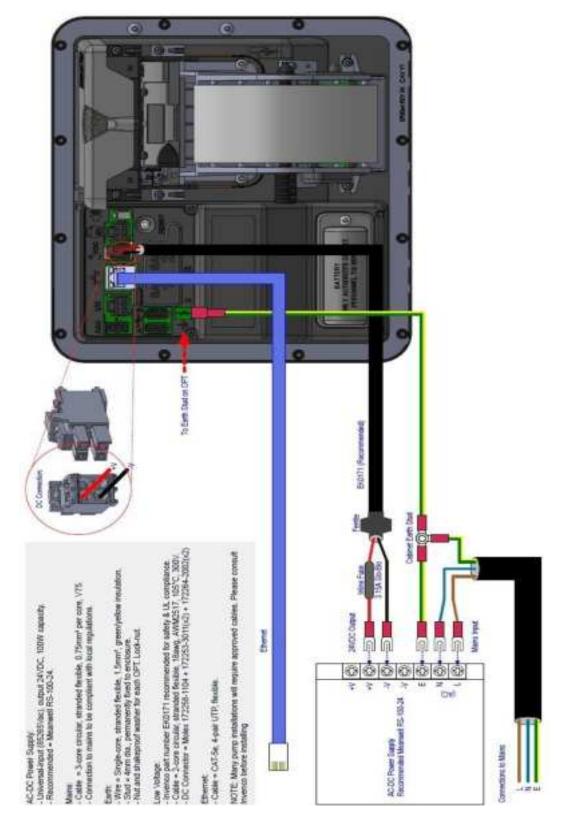


Fig. 23.2: Exploded view, mounting to panel.

Chapter 24.

The schematic below shows the standard and typical wiring for the G6-300. We recommend that you use this wiring for safety and correct performance.



Chapter 25. Release History

Version	Prepared by	Date	Change description
1.0	Kristy Clarkson	2019-09-04	Created document.
2.0	Kristy Clarkson	2019-10-25	Revision of images
3.0	Kristy Clarkson	2019-11-05	Addition of further approvals
4.0	Kristy Clarkson	2019-11-12	Addition of Canadian approvals
5.0	Adam Crocker/Dris Adradi	2020-03-11	Revision of some images, format conversion, additional text
6.0	Michael Doh	2020-09-16	Addition of FCC ID and IC ID for G6-300 with hardware ID (XXX- XX1XXXXXX)

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