TIMEGUARD®

Weathersafe Vision

Installation & Operating Instructions

WEATHERSAFE®
IP66
RATING

IP66 Products covered by these instructions

TGVL01	Single Gang 2-Way Switch [SP] 10AX (Fluorescent rated)
TGVL02	Twin Gang 2-Way Switch [SP] 10AX (Fluorescent rated)
TGVL03	Single Gang Bell Push Switch [SP] 10AX (Fluorescent rated)
TGVL05	Single Gang Switch [DP] 20AX (Fluorescent rated)
TGV101N	Single Gang Socket Switched 13A
TGV201N	Twin Gang Socket Switched 13A
TGV104N	Single Gang RCD Fused Spur 13A
TGV204N	Twin Gang RCD Socket Switched 13A (Passive/Latching)
TGV205N	Twin Gang RCD Socket Switched 13A (Active/Non-Latching)
TGV103N	Single Gang Switched Fused Spur 13A – with Neon

1. General Information

These instructions should be read carefully and retained for further reference and maintenance.

All Weathersafe Vision products need to be fitted with waterproof cable and conduit entries to maintain their IP rating once installed.

2. Safety

- Before installation or maintenance, ensure the mains supply to the switch, socket, spur or bell push unit is switched off and the circuit supply fuses are removed or the circuit breaker turned off.

- It is recommended that a qualified electrician is consulted or used for the installation of this IP66 rated switch, socket, spur or bell push unit and install in accordance with the current IEE wiring and Building Regulations.
- Check that the total load on the circuit including when this switch, socket, spur or bell push unit is fitted does not exceed the rating of the circuit cable, fuse or circuit breaker.
- Electricity can be dangerous; the use of an RCD should not be regarded as a substitute for basic electrical safety precautions.
- Always test the RCD before use. If the test procedure is not completed satisfactory or an appliance continues to trip the RCD seek professional advice and switch off the appliance.
- To clean, use a clean dry cloth only. Do NOT use any liquid cleaners.
- During use warming of the enclosure is normal.

Wiring tests – Important (TGV104N, TGV204N & TGV205N)

- Remove this product from the circuit if carrying out tests (as described in the IEE Wiring Regulations) for earth loop impedance, prospective short circuit current and insulation resistance.
- Use the enclosed warning label to ensure this is carried out.

3. Technical Specifications

General

- Voltage: 230V AC 50Hz
- IP Rating: IP66
- All products in the range comply with the low voltage directive 2014/35/EU and where relevant the EMC directive 2014/30/EU and ROHS directive 2011/65/EU.
- CE Compliant

Switches (TGVL01, TGVL02, TGVL03, TGVL05)

- Backlit neon (illuminates switch for dark areas)
- Rocker Switch Rating: 13Amp (3kW) 10AX
- Operating temperature range: -5° to 55°C
- Complies with: BS EN 60669

Sockets (TGV101N & TGV201N)

- Individual power 'ON' Neon Indicators
- Lockable cover facility
- Operating temperature range: -5° to 55°C
- Complies with: BS1363

RCD'S (TGV104N, TGV204N, TGV205N)

- Lockable cover facility
- Rated trip current: 30mA
- RCD Type: Double pole, suitable for 2 and 3 wire applications
- Breaking capacity: 250A (Earth leakage)
- Through fault withstand: 1500A
- Trip Speed: Less than 40msec at 150mA residual current
- Classification: TGV104N – Latching (Passive)
TGV204N – Latching (Passive)
TGV205N – Non-latching (Active)
- Operating temperature range: -5ºC to 40ºC
- Complies with: BS7288 & BS1363

Fused Spur (TGV103N)

- Power 'ON' Neon indicator
- Lockable cover facility
- Operating temperature range: -5° to 55°C
- Complies with: BS1363

4. TGVL01, TGVL02, TGVL03, TGVL05 Installation

1. IMPORTANT Switch off the electricity at the fuse box by removing the relevant fuse or switching off the circuit breaker before proceeding with the installation.
2. Remove the black coloured rocker switch from the faceplate pivot support joints using a suitable flat ended screwdriver. Using a Philips screwdriver, separate the faceplate from the back box by removing the four tapped screws located in each corner. See figure 1.

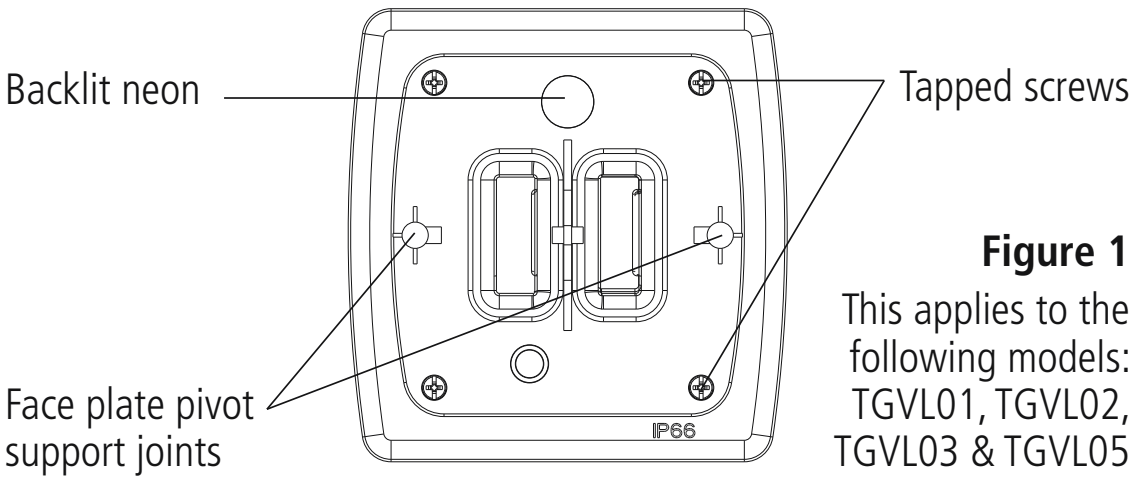


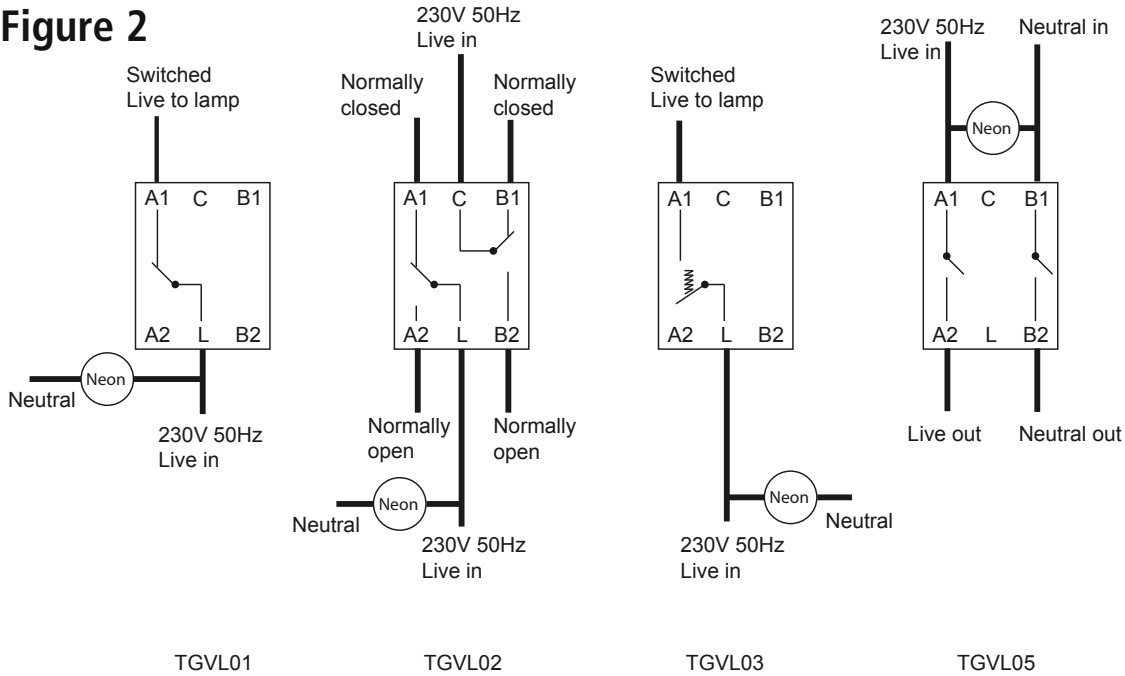
Figure 1
This applies to the following models: TGVL01, TGVL02, TGVL03 & TGVL05

3. Using the back plate as a template mark the position for the holes. Note the back plate must be mounted in the correct orientation, following the 'TOP' marking inside the back plate. If the mounting position desired is uneven use a sheet of marine ply as a base plate and fit the back box.
4. Drill the wall using a 4mm Ø drill bit making sure not to infringe or compromise any gas, water pipes or cables. Insert the rawl plugs into the holes.
5. The drain feature must be drilled out using a 5mm drill if the top or side entry conduit is used. Opening this drain hole will reduce the IP rating of the product. Remember – open out the lower drain feature only.

6. Cut out the knock-out entry point by carefully scoring the groove carefully with a sharp knife and using a small hammer for tapping off the entry point. If conduit is not going to be used, a waterproof cable with suitable IP rated 20mm glands will be required to maintain the overall IP rating. If the bottom entry conduit is used, there must be adequate drainage from the lowest point of the conduit.
7. Follow suit using the same method depicted in stage 6 to create an exit point for the output supply cable to follow through on.
8. Secure the back box to the wall using suitable screws for the rawl plugs installed.
   Ensure that the back box is correctly orientated following the 'TOP' marking which is labelled inside.
9. Pass though the 230V AC 50Hz mains supply cable and secure the cables tightly to their respective terminals. Ensure that all bare conductors are sleeved and that correct polarity is observed; see figure 2 for the appropriate wiring method. Note that if metal conduit is being used the earth continuity between the conduits must be maintained.
10. Once the mains supply is connected to the correct terminals, mount the face plate over the back box aligning the four screws from the face plate to the four mounting holes on the back box. Tighten until secured.
11. Once the face plate and back box have been mounted clip the hinge of the rocker switch to the pivot support joints of the face plate and push until even on both sides.

4.1 TGVL01, TGVL02, TGVL03, TGVL05 Wiring Diagrams

Figure 2



If a local neutral is required to give permanent indication of switch position using the neon supplied, or for wiring purposes, then use one of the earth terminals shown in figure 3 as a neutral wiring terminal.

Note: This is the only way the neon should be connected.

One of these two terminals marked earth ⏚ can be used as a neutral terminal.

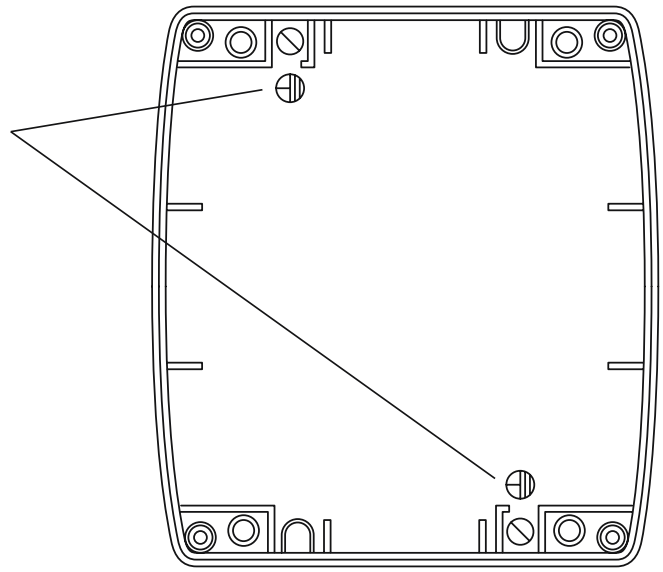


Figure 3

TGVL01, TGVL02, TGVL03
Earth Terminal Positions

5. TGV101N, TGV201N & TGV103N Installation

1. IMPORTANT Switch off the electricity at the fuse box by removing the relevant fuse or switching off the circuit breaker before proceeding with the installation.
2. Using a Philips screwdriver, separate the faceplate from the back box by removing the four tapped screws located in each corner. See figure 4 & 5 for your chosen product.

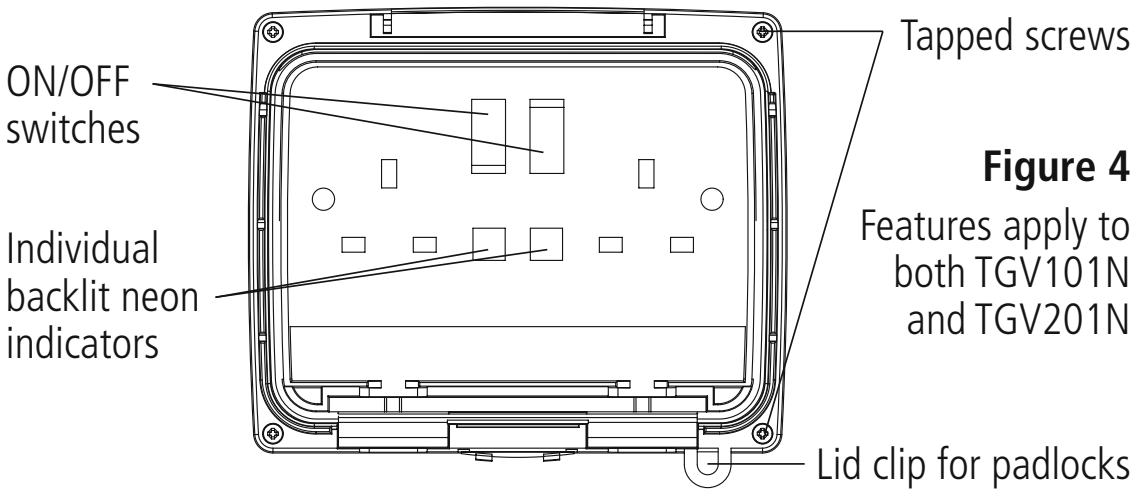


Figure 4
Features apply to both TGV101N and TGV201N

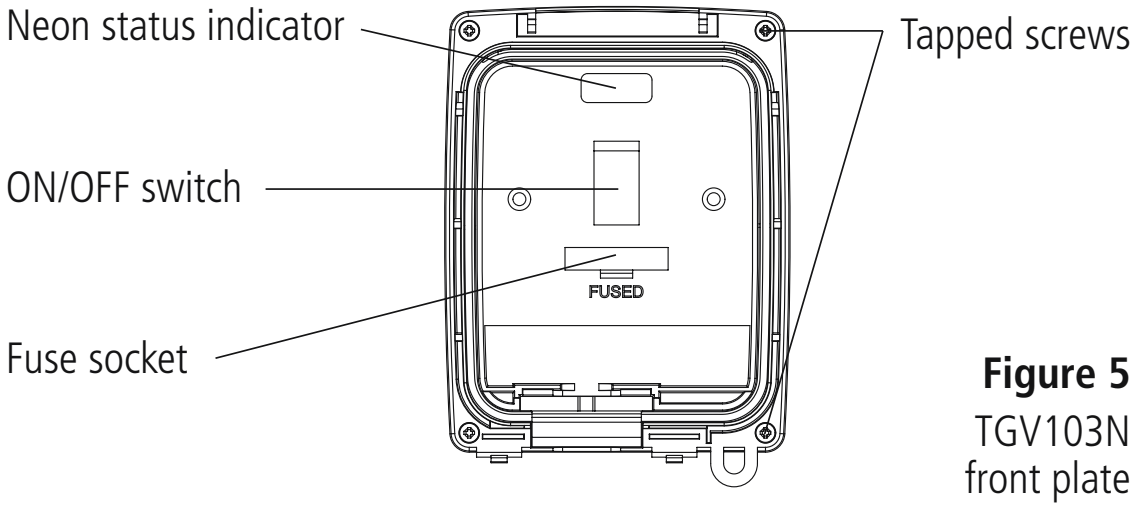
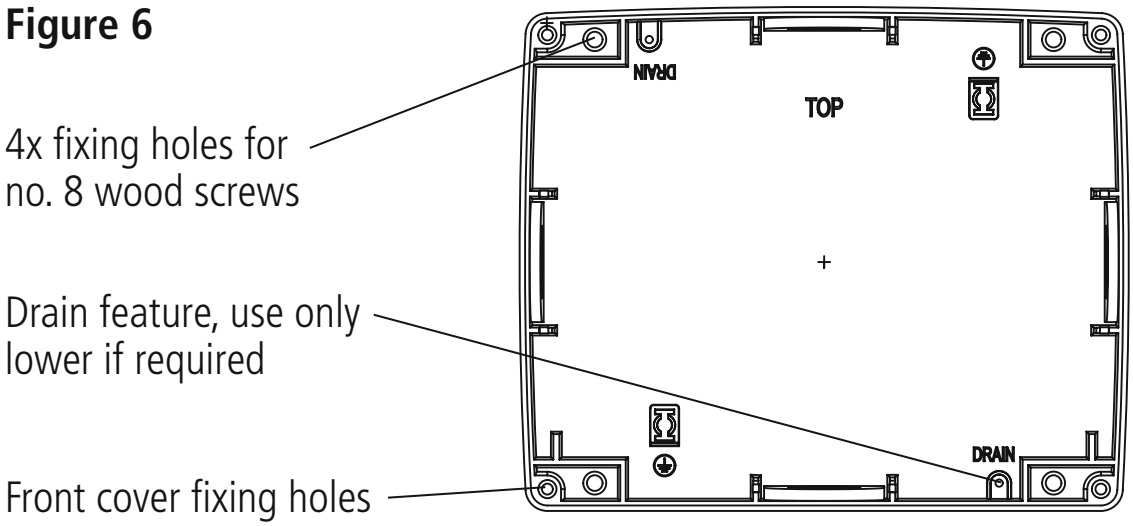


Figure 5
TGV103N front plate

3. Using the back plate as a template mark the position for the holes. Note the back plate must be mounted in the correct orientation, following the 'TOP' marking inside the back plate. If the mounting position desired is uneven use a sheet of marine ply as a base plate and fit the back box.
4. Drill the wall using a 4mm Ø drill bit making sure not to infringe or compromise any gas, water pipes or cables. Insert the rawl plugs into the holes.
5. The drain feature must be drilled out using a 5mm drill if the top or side entry conduit is used. Opening this drain hole will reduce the IP rating of the product. Remember – open out the lower drain feature only, see figure 6.

Figure 6



6. Select the required entry point by unscrewing the appropriate seal located on all four sides of the back box. If conduit is not going to be used, a waterproof cable with suitable IP rated 20mm glands will be required to maintain the overall IP rating. If the bottom entry conduit is used, there must be adequate drainage from the lowest point of the conduit.
7. Follow suit using the same method depicted in stage 6 to create an exit point for the output supply cable to follow through on.
8. Secure the back box to the wall using suitable screws for the rawl plugs installed. Ensure that the back box is correctly orientated following the 'TOP' marking which is labelled inside.

9. Pass though the 230V AC 50Hz mains supply cable and secure the cables tightly to their respective terminals ensuring that all bare conductors are sleeved and that correct polarity is observed, see figure 7, 8 or 9 for the appropriate wiring diagram of your chosen product. Note that if metal conduit is being used the earth continuity between the conduits must be maintained.
10. Once the mains supply is connected to the correct terminals, mount the face plate over the back box aligning the four screws from the face plate to the four mounting holes on the back box. Tighten until secured.

5.1 TGV101N, TGV201N & TGV103N Wiring Diagrams

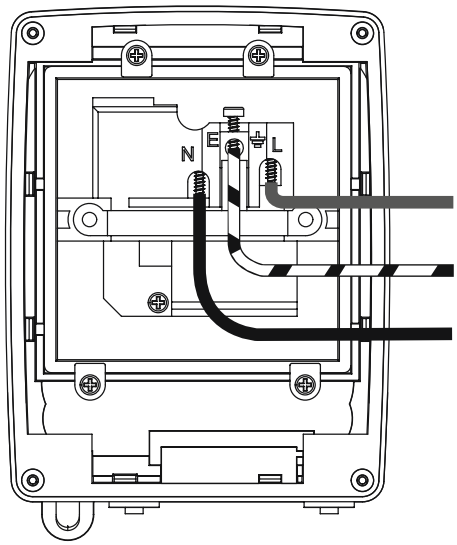
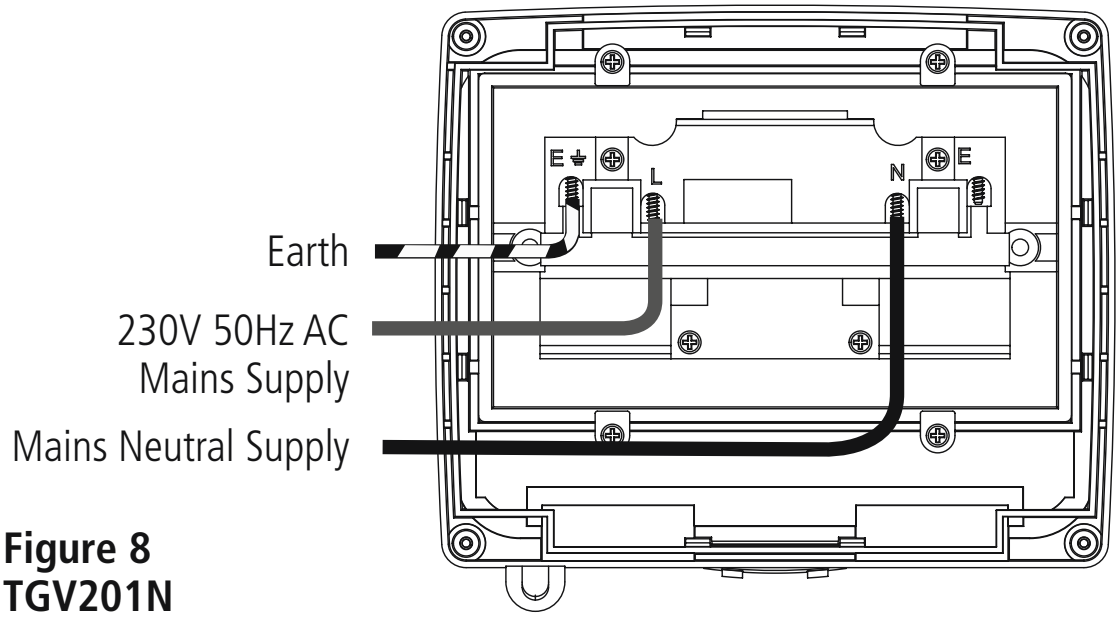


Figure 7
TGV101N

230V 50Hz AC Mains Supply

Earth

Mains Neutral Supply



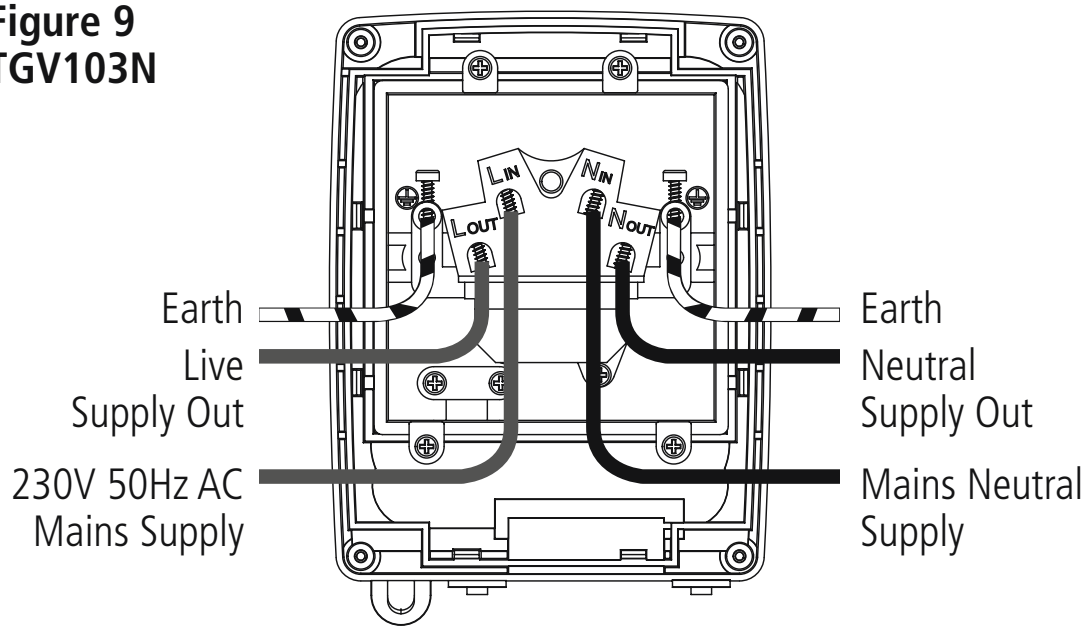
Earth

230V 50Hz AC Mains Supply

Mains Neutral Supply

Figure 8
TGV201N

Figure 9
TGV103N



6. TGV104N, TGV204N, TGV205N Installation

1. IMPORTANT Switch off the electricity at the fuse box by removing the relevant fuse or switching off the circuit breaker before proceeding with the installation.
2. Using a Philips screwdriver, separate the faceplate from the back box by removing the four tapped screws located in each corner. See figure 10 & 11 for your chosen product

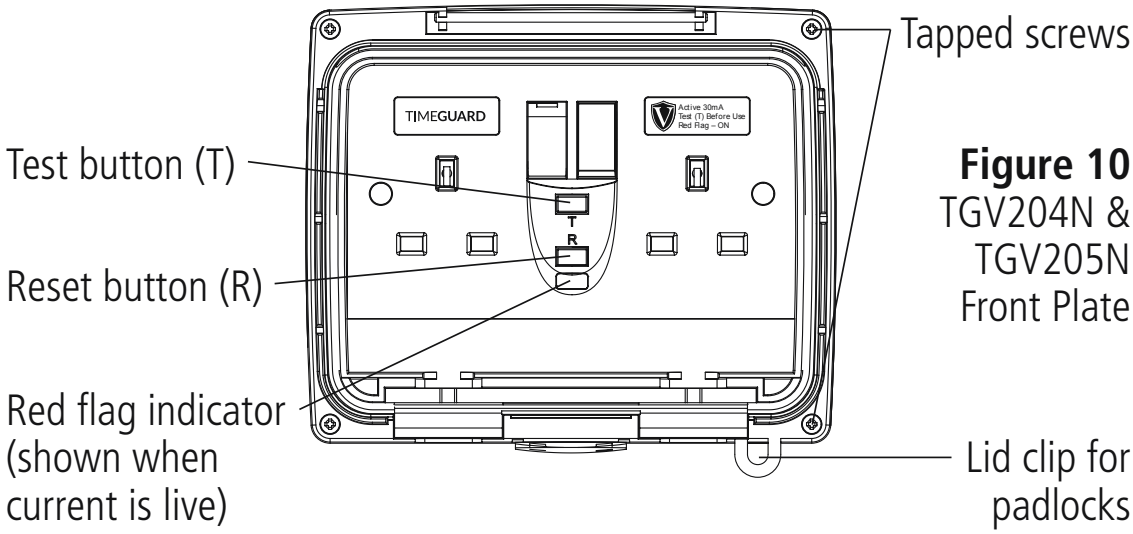


Figure 10
TGV204N &
TGV205N
Front Plate

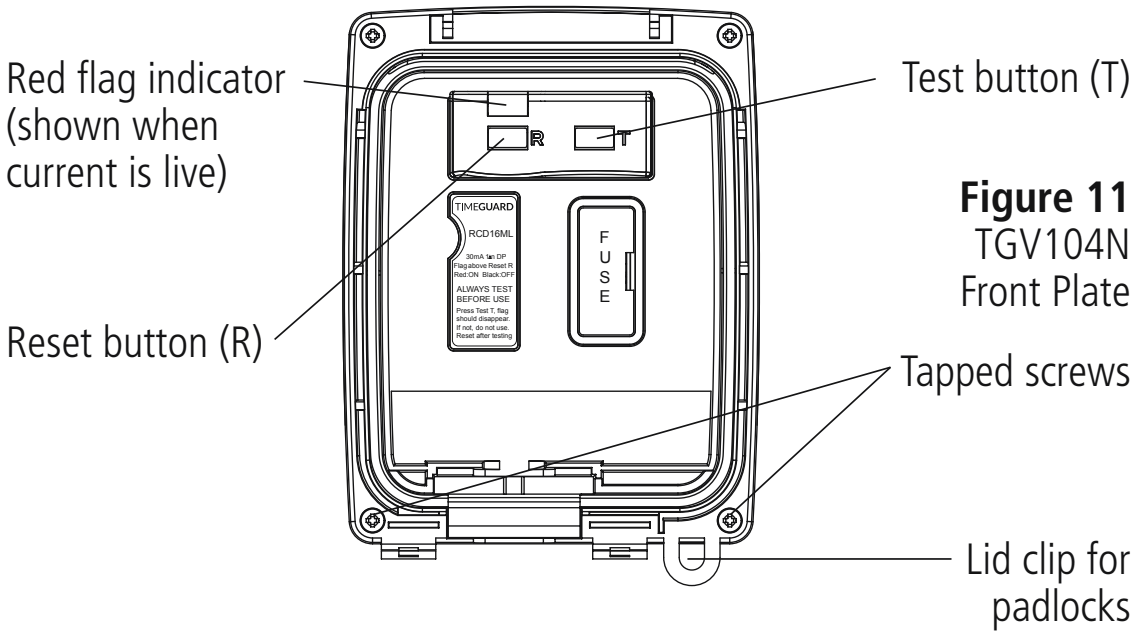


Figure 11
TGV104N
Front Plate

3. Using the back plate as a template mark the position for the holes. Note the back plate must be mounted in the correct orientation, following the 'TOP' marking inside the back plate. If the mounting position desired is uneven use a sheet of marine ply as a base plate and fit the back box.
4. Drill the wall using a 4mm Ø drill bit making sure not to infringe or compromise any gas, water pipes or cables. Insert the rawl plugs into the holes.
5. The drain feature must be drilled out using a 5mm drill if the top or side entry conduit is used. Opening this drain hole will reduce the IP rating of the product. Remember – open out the lower drain feature only.
6. Select the required entry point by unscrewing the appropriate seal located on all four sides of the back box. If conduit is not going to be used, a waterproof cable with suitable IP rated 20mm cable glands will be required to maintain the overall IP rating. If the bottom entry conduit is used, there must be adequate drainage from the lowest point of the conduit.
7. Follow suit using the same method depicted in stage 6 to create an exit point for the output supply cable to follow through on.

8. Secure the back box to the wall using suitable screws for the rawl plugs installed. Ensure that the back box is correctly orientated following the 'TOP' marking which is labelled inside.
9. Pass though the 230V AC 50Hz mains supply cable and secure the cables tightly to their respective terminals ensuring that all bare conductors are sleeved and that correct polarity is observed, see figure 12 and 13 for the appropriate wiring diagram for your chosen product. Note that if metal conduit is being used the earth continuity between the conduits must be maintained.
10. Once the mains supply is connected to the correct terminals, mount the face plate over the back box aligning the four screws from the face plate to the four mounting holes on the back box. Tighten until secured.

6.1 TGV104N, TGV204N, TGV205N Wiring Diagrams

Figure 12
TGV104N

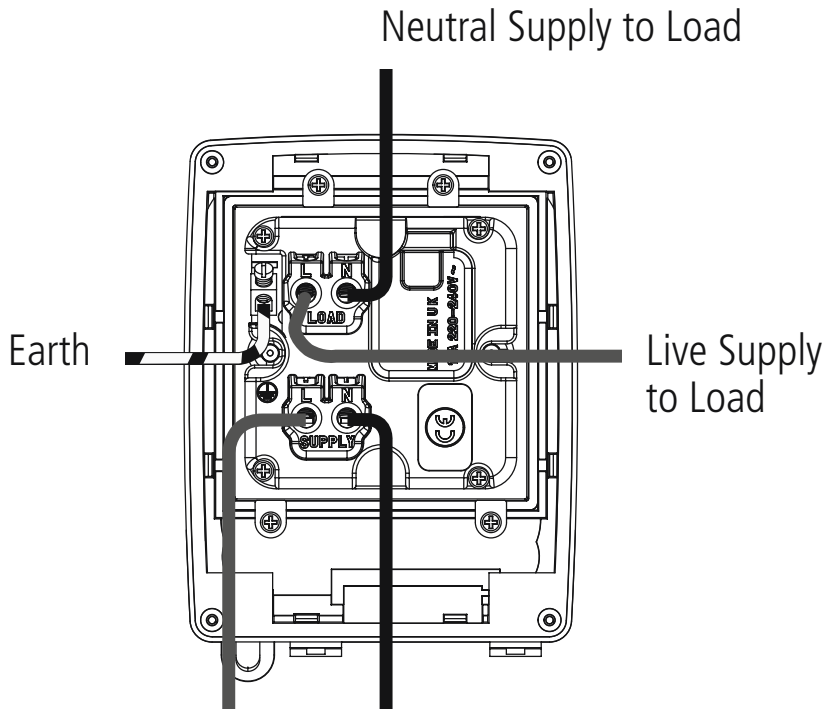
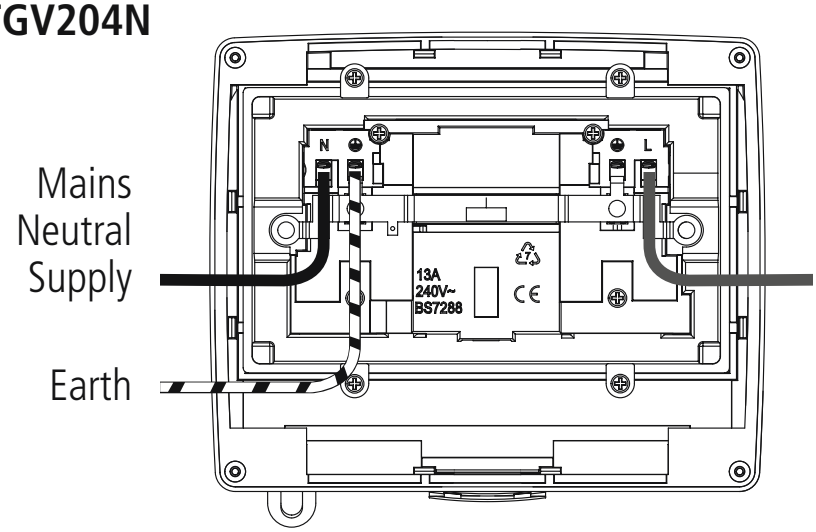


Figure 13
TGV204N



6.2 TGV104N, TGV204N and TGV205N Testing & Usage

To test: Ensure supply is connected

RESET – press the grey (blue for TGV205N) button marked Reset (R), the status indicator should show red.

Test – press the red button marked Test (T), the status indicator should show black. This indicates that the RCD has been tripped and power has been disconnected from the outlet.

RESET – press the grey (blue for TGV205N) button marked reset (R) again; the status indicator should show red.

If all the above operations work satisfactory, the RCD is safe for use.

If this test procedure is not completed to a satisfactory standard, do not use the RCD and seek professional advice.

In applications such as hand driers it may not be practical to expect each user to test before use. In this case we suggest an appropriate person applies the test routine twice a day.

After satisfactory testing the RCD, any connected appliance may be switched on, and used in the confidence that the user is protected from electric shock by rapid disconnection of the supply.

3 Year Guarantee

In the unlikely event of this product becoming faulty due to defective material or manufacture within 3 years of the date of purchase, please return it to your supplier in the first year with proof of purchase and it will be replaced free of charge. For the second and third years or any difficulty in the first year telephone the helpline on 020 8450 0515.

Note: A proof of purchase is required in all cases. For all eligible replacements (where agreed by Timeguard) the customer is responsible for all shipping/postage charges outside of the UK. All shipping costs are to be paid in advance before a replacement is sent out.

If you experience problems, do not immediately return the unit to the store.
Telephone the Timeguard Customer Helpline;

HELPLINE

020 8450 0515

or email helpline@timeguard.com

Qualified Customer Support Co-ordinators will be on-line to assist in resolving your query.

TIMEGUARD®

A theben Group Company

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Sales Office: 020 8452 1112
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