Auxiliaries - I/O

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Written By: Jason Fox



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INTRODUCTION

Currently supported use cases:

- **Driver Seatbelt** - Tracks whether the driver's seatbelt is Buckled or Unbuckled
- **Power Take-Off (PTO)** - Tracks whether auxiliary equipment (e.g., a crane or pump) is Engaged or Disengaged
- **Cargo Door** - Tracks whether a cargo door is Open or Closed
- **Generic Digital Input** - Records the raw on/off signal without a specific label. This option can be used alongside other use cases.

RECOMMENDED TOOLS & CONSUMABLES:

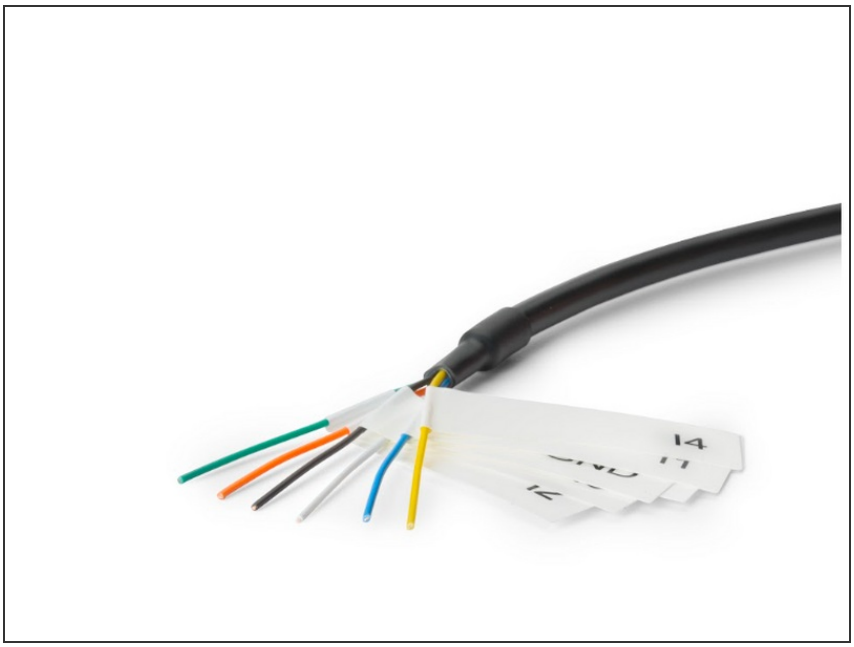
- Multi-Bit Screwdriver with Assorted Bits (1)
- Cable Ties (1)
- Flush Cutter (1)
- Soldering Iron (1)
- Heat Gun (1)
- Heat Shrink (1)
- DMM (1)

HARDWARE & ACCESSORIES:

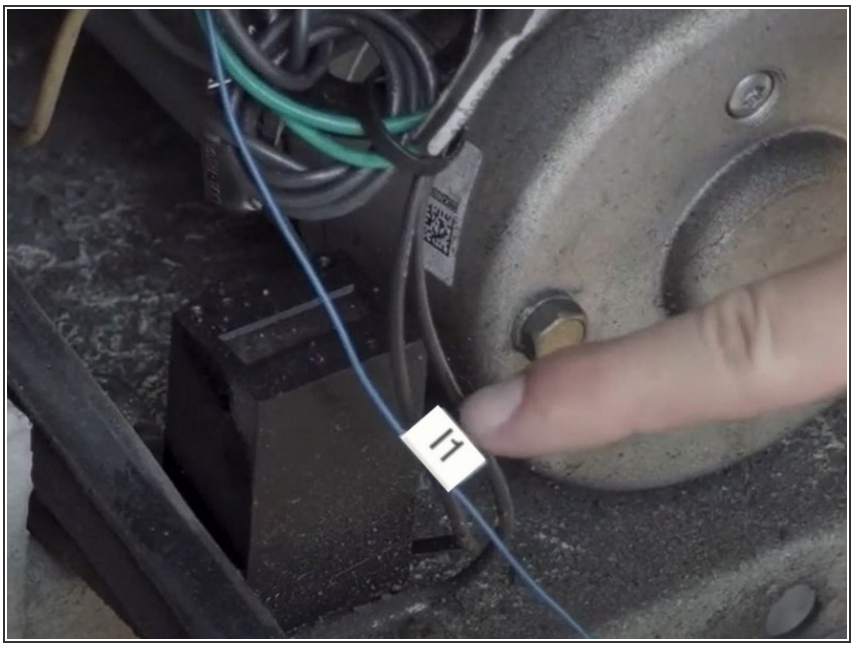
- GO10 or GO10 Plus (1)
- HRN-XGL06S6 - GPIO (1)

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— Auxiliaries - I/O

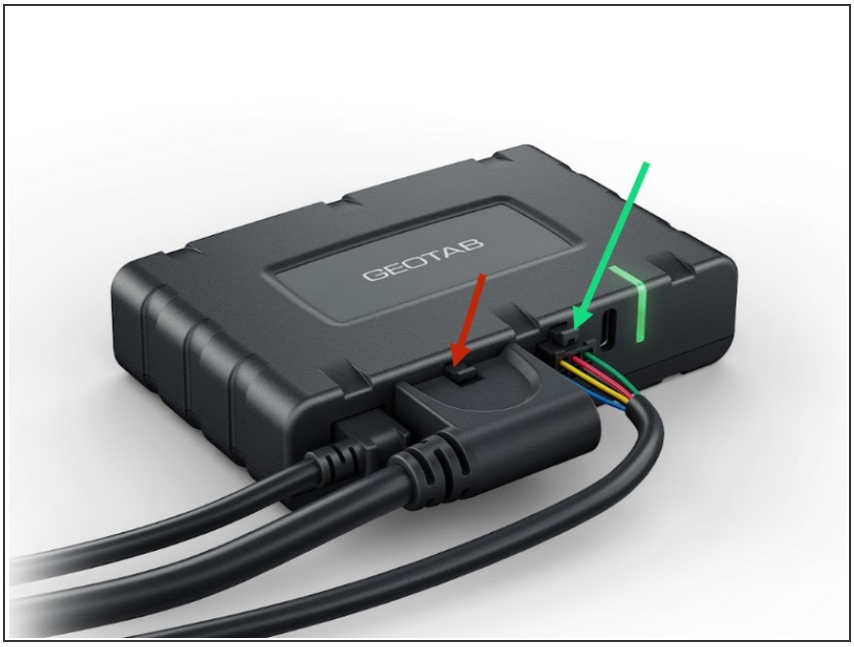


- HRN-XGL06S6 has 4 Inputs labeled I1 - I4.
- You will notice a White wire labeled O1 and Black labeled GND. These are not used at this time.



- Using a Digital Multimeter identify wires in the vehicle to connect to for desired telemetry. Identify a wire that changes state: for example voltage changes when door opens, seatbelt buckles, etc.
  - It may be useful to refer to one of the following resources (*i.e. ALLDATA™, WireSheet™, Mitchell1 ProDemand™ / eAutoRepair™ or equivalent*) to locate the required wire in the vehicle.
- Connect the desired inputs in the vehicle to the HRN-XGL06S6 wires as needed.

— Device Connection



- Connect the GPIO harness to the I/O port on the back of your GO Device using the 6 pin Molex connector.
- Plug Harness into GO device.
- Be sure both clip in place. Due to this clip securing the connection a cable tie is not required.

— MyInstall Setup and Configuration

- When setting up Data Labelling, you will assign one of the following use cases to each digital input on your device:
  - Cargo Door - Tracks whether a cargo door is Open or Closed
  - Power Take-Off (PTO) - Tracks whether auxiliary equipment (e.g., a crane or pump) is Engaged or Disengaged
  - Driver Seatbelt - Tracks whether the driver's seatbelt is Buckled or Unbuckled
  - Generic Digital Input - Records the raw on/off signal without a specific label. This option can be used alongside other use cases.

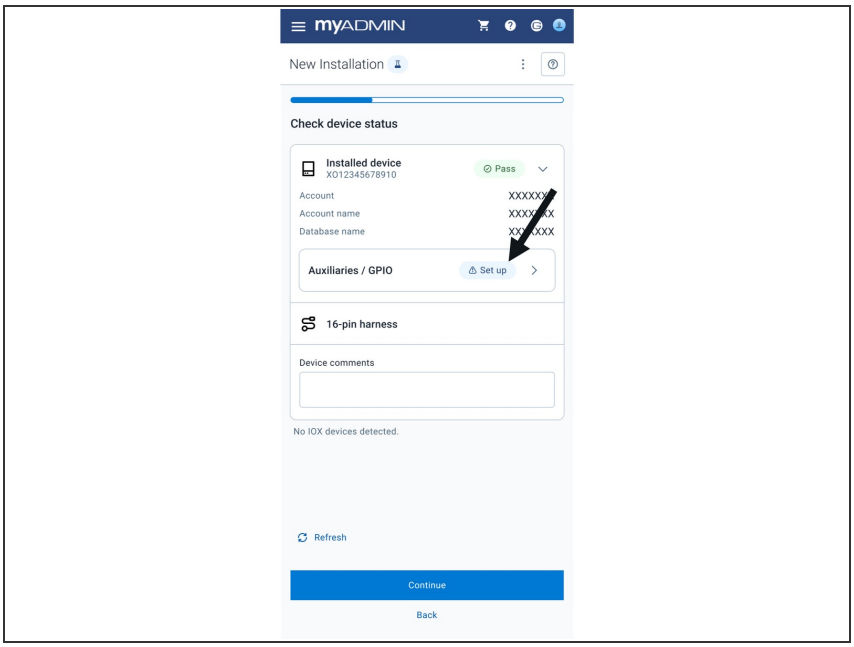
ⓘ Each input can only be assigned one use case at a time, except for Generic Digital Input.

Ensure the harness is wired into the vehicle and plugged in prior to powering on the GO10 or GO10 Plus device

— Open MyInstall

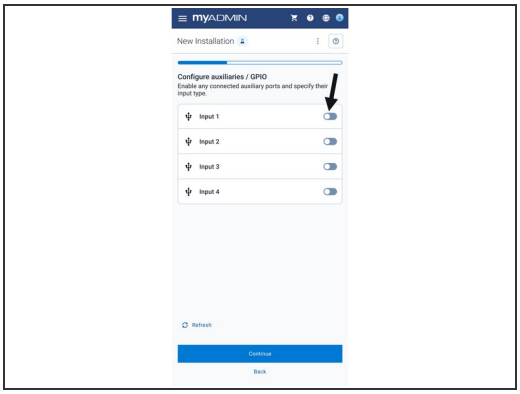
- Access MyInstall.
- Select “New installation”
  - Scan the barcode on your device or manually enter the serial number (starting with "X") to locate your GO10™ or GO10 Plus™.

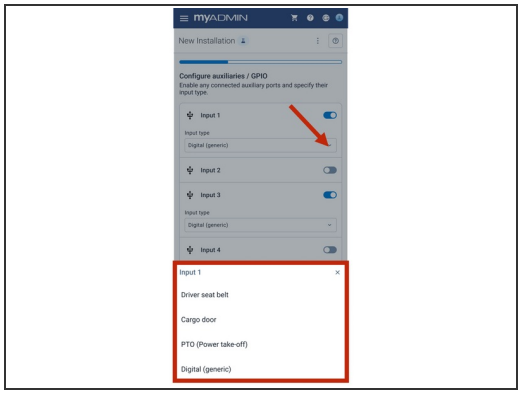
— GPIO Setup

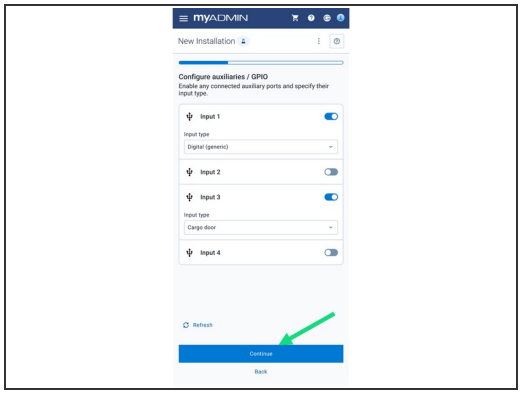


- On the Connected Equipment screen, tap "GPIO Setup" on the device card to open the Data Labelling configuration page.

— Assign a use case to each input







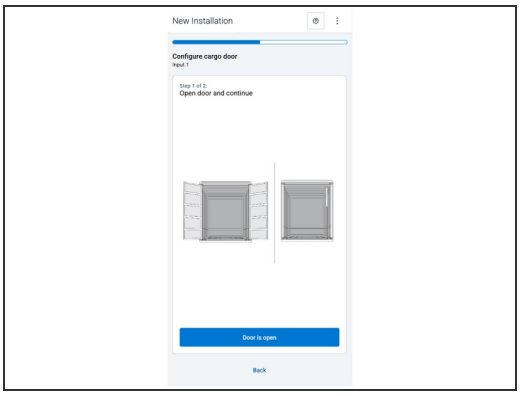
- Enable each input used by toggling the switch on.
- Choose the appropriate use case from the drop down list.
- Tap continue to complete calibration.
- ⓘ Inputs can be left unassigned if not connected to anything in the vehicle.

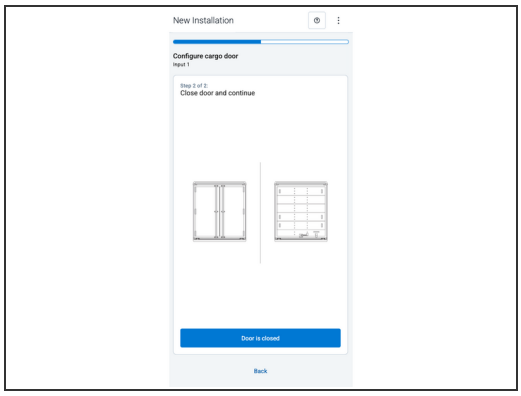
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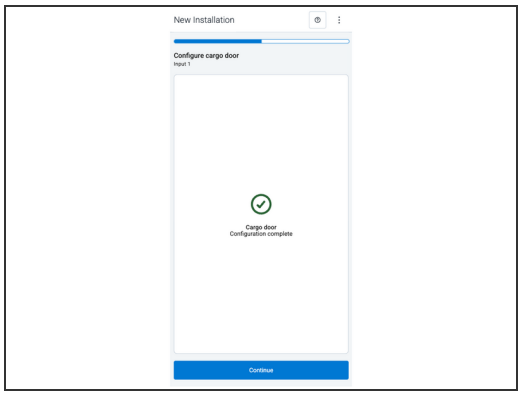
— Setup

⚠ IMPORTANT: All inputs must be "off" position before starting. For example seatbelt unbuckled, PTO Off, Cargo Door Closed.

— Complete Setup



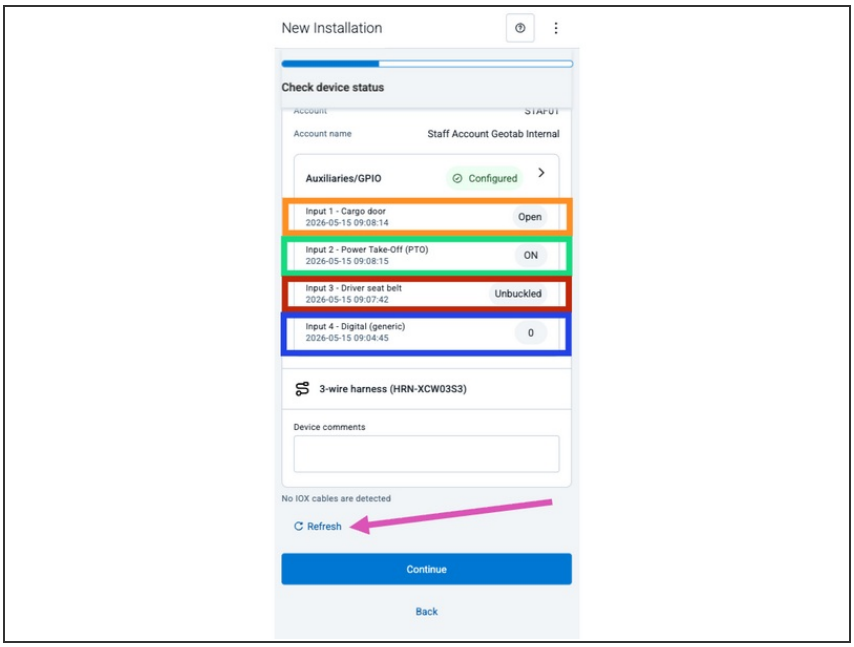




- The app will display a loading screen for about 10 seconds while the device prepares for calibration.
- For inputs requiring calibration (Seatbelt, PTO, Cargo Door), the app guides you through each one individually:
- Trigger the first state (buckle seatbelt / engage PTO / open door) → follow instructions on the screen.
- Trigger the opposite state (unbuckle / deactivate / close) → wait for screen confirmation. Click to confirm.

NOTE: Each input must be calibrated within 2 minutes or the entire configuration is cancelled — restart from previous step. Back button preserves use case selections.

— Verify your configuration



- Once the calibration is complete, you will be returned to the Connected Equipment screen, the current status of each input is displayed:
  - Cargo Door: Open or Closed
  - PTO: Engaged or Disengaged
  - Driver Seatbelt: Buckled or Unbuckled
  - Generic Digital Input: 0 (off) or 1 (on)
- Toggle each physical input to confirm the status updates. Use the refresh button if status does not update immediately.

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