



Atlas Connect Gateway

Model number 02CONT0002

Product: ACG10

Installation Manual

To consistently bring you the highest quality, full-featured products, we reserve the right to change our specifications and designs at any time. Search novationcontrols.com for the latest version of this manual.

Warranty - A limited warranty on materials and workmanship is given with this Enovation Controls product. A copy of the warranty may be viewed or printed by going to www.enovationcontrols.com/warranty



BEFORE INSTALLING THIS ENOVATION CONTROLS PRODUCT:

Read and follow all installation instructions.

Please contact Enovation Controls immediately if you have any questions.

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Document Change Record	
Date	Description of Change
5/15/2025	Initial document
1/20/2026	Added antenna, FCC regulatory information.
2/19/2026	Added regulatory information for Africa, Australia/NZ

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Hardware Installation

The following instructions will guide you through installing the ACG10.

The Atlas Connect Gateway is an integral part of being able to remotely troubleshoot IoT devices. Working with Cygnus Reach (a diagnostics tool designed to assist application engineers in solving customer problems remotely), the cost-effective Atlas Connect Gateway can replace costly multi-function displays while providing the same Bluetooth and CAN connectivity for the customer's devices. This also allows Cygnus Reach to be sold to customers who do not have equipment with Bluetooth capabilities.

The Gateway's Bluetooth module can connect to the phone and the vehicle's CAN network. Troubleshooting can then occur remotely. Future capabilities of the Atlas Gateway include the ability for technicians to push firmware updates via the cloud to connected equipment.

Inspecting Package Contents

Before attempting to install the product, it is recommended that you ensure all parts are accounted for and inspect each item for damage (which sometimes occurs during shipping). The items included in the box are:

- Model 02CONT0002 ACG10
- Installation manual web reference insert

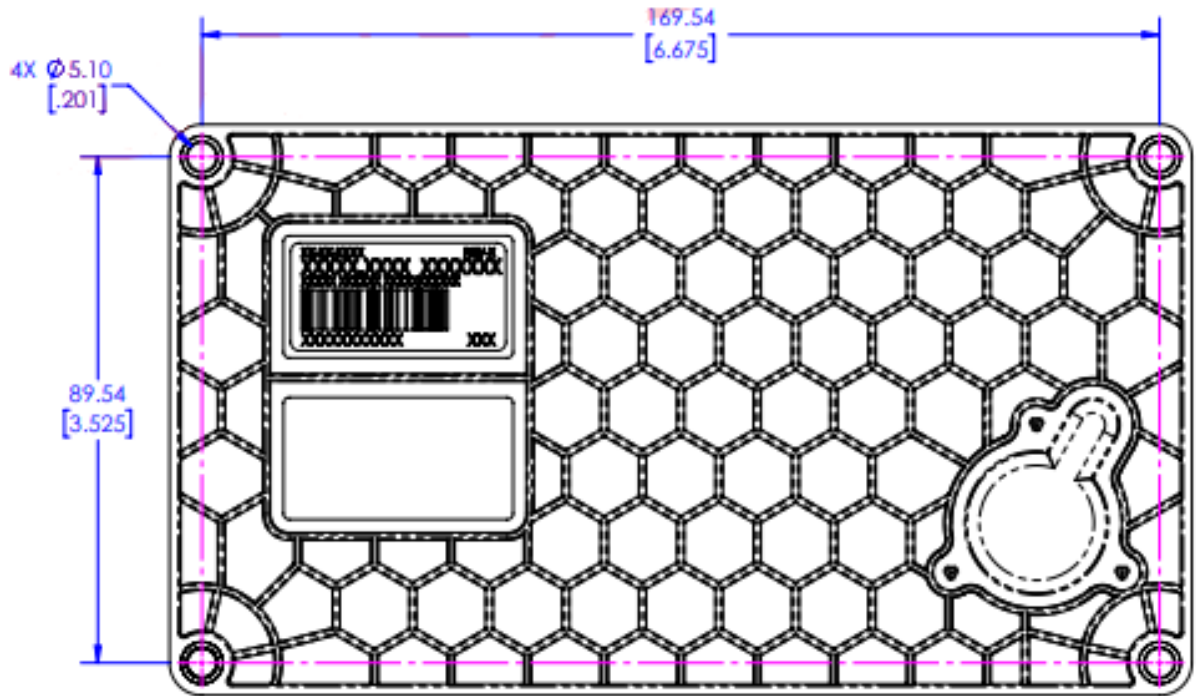
Installation

Needed

- Four M4 Screws

Tools needed.

- Drill with 4.40mm size bit
- Screwdriver
- Optional: 3.3mm bit and an M4 tap



Mounting the Unit

Two methods to use:

- Threaded holes: Drill and tap the four M4 mounting holes. This will require a drill, drill bit and an M4 Tap.
- Through Holes: Drill an M4 through-hole for bolt and nut mounting. This will require a drill and a 4.40mm drill bit.

Use the four screws to attach the unit, and torque based on fastener specifications.


Utilize the 1:1 cutout template on page 8 of this document.

Ordering and Accessories

The ACG10 and accessories are available through Enovation Controls:

Part Number	Description	Order Details
53702338	ACG10	Gateway
53000024	Kit, USB-C Retainer	Accessories

Recommended Fuse Rating

An ISO8820 certified automotive fuse rated for no more than 1A shall be used to power the unit. 

Labeling

There are two labels on the AGC10:

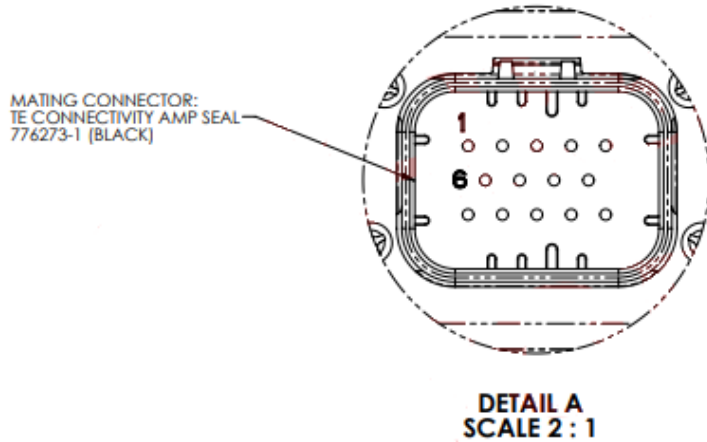


Connecting to the ACG10

There are three ways to connect to the ACG10:

1. Bluetooth Connection: The ACG10 uses its Bluetooth module to send communication to the phone, allowing the technician to see the CAN data during a remote troubleshooting session. Connect the phone via the proper Bluetooth procedure.
2. Wi-Fi Connection: The ACG10 can connect to a Wi-Fi network, enabling the technician to see CAN data and potentially push updates to the equipment via the cloud. Connect to a Wi-Fi network via the proper Wi-Fi procedure.
3. Pairing Mode: The ACG10 has a button to put it into pairing mode, allowing it to connect to the phone or Wi-Fi network if the connection is not established automatically.

Pinout Specifications



CONNECTOR PINOUT	
PIN #	FUNCTION
1	GND
2	RS485_H
3	RS485_L
4	CAN2_HI
5	DOUT2
6	VBATT
7	IGNITION
8	CAN2_LO
9	N.C
10	DIN1
11	AIN1
12	AIN2
13	DIN2
14	DOUT1

Antenna Recommendations

In order to boost the signal strength of the Atlas Connect Gateway, it is recommended the customer purchase an external antenna of their choosing. To be within certification, this purchased antenna has to have a gain less than or equal to 2.33dBi.

Recommended Product		Vendor
<p>Part Number: SI301102039 2JW1002-FKI_CU100432 2JW1002-FKI, "Katana", Black, Connector Mount, Swivel, 2.4/5.0: Fakra I-Beige Female connector</p>		<p>2J Antennas USA 2020 W. Guadalupe Rd, Suite 8 Gilbert, AZ 85233 sales@2j-antennas.com +1 (480) 284-5522 / 410</p>

This device complies with **FCC Part 15** and **ICES-003** for Class B digital apparatus. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

Regulatory Information

Following are the individual certifications for the ACG10 Atlas Gateway:

Africa:



TA – 2025/3271

Australia-NZ:



Registered Code # E3211/19 604 316 556

Cut-Out Template

Print this page and mark the cutout holes. Before cutting, ensure the holes are exactly 6.675 inches (169.54mm) x 3.525 inches (89.54mm).



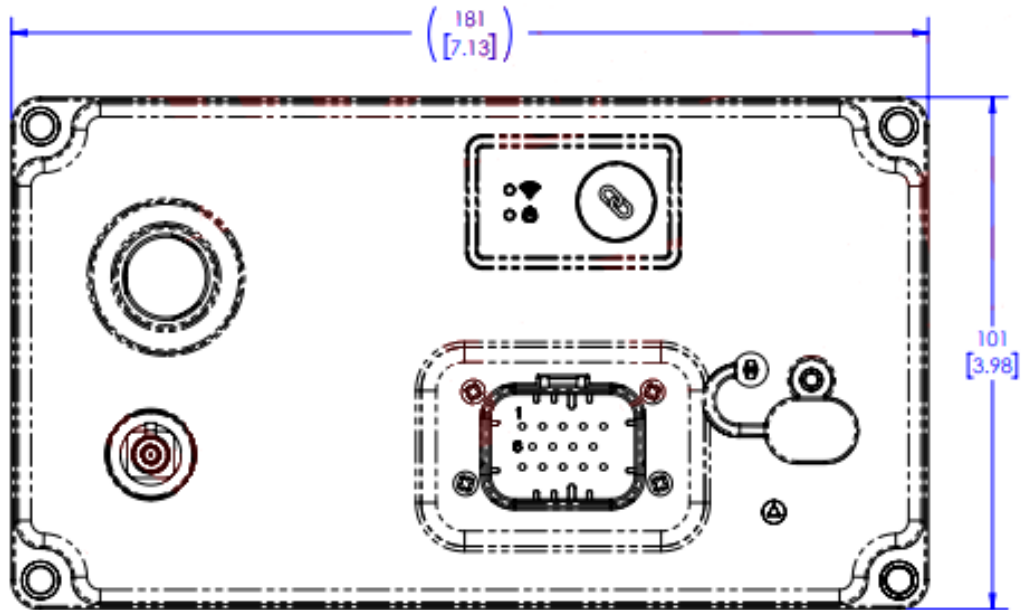
Specifications

Computing	
Main Processor:	Arm® Cortex-A7 with M4 Coprocessor
Clock Speed:	2x650MHz (Main), 1x200MHz Arm® Cortex M4 (Real time control)
Storage:	4 GB eMMC flash for operating systems and applications
Ram:	512 MB, 16 Bit
Electrical / Environment	
Operating Voltage:	6-36 VDC, Reverse polarity protected
Operating Temperature:	-40°F to +158°F (-40°C to +70°C)
Storage Temperature:	-40°F to +185°F (-40°C to +85°C)
Protection:	IP67
Vibration:	ISO 16750-3-4.1.2.7
Shock:	ISO 16750-3-4.2.2
EMC/EMI:	SAE J1113, ISO 16750-2 (2012), ISO 11452, CISPR25 (2016), EN60945 (2002), EN61326-1 (2005), EN12895 (2015), EN ISO 14982 (2009), ISO 13766 (2018), 2014/53/EU
Features	
CAN:	1 CAN
Serial:	USB-C, RS-485
Wi-Fi:	802.11 b/g/n
Bluetooth:	Bluetooth V4.2 + EDR BR/EDR and Bluetooth LE specification
Inputs:	2X Resistive (0-5V), 2X Dig/Ana (0-36V)
Clock:	Real Time Clock with rechargeable battery backup
USB	USB Type-C with Locking Connector

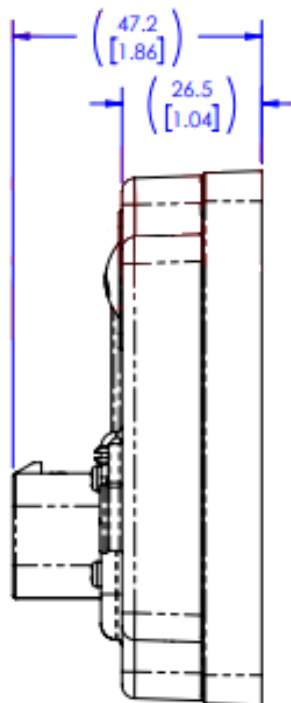
Dimensions

MM
(inches)

Rear View



Side View



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