

Thank You

Thanks for purchasing a Settler Remote Monitoring Device from APG! We appreciate your business and your trust. Please take a moment to familiarize yourself with the product and this manual before installation. If you have any questions, don't hesitate to call us at 888-525-7300.

You can find the full Settler manual at: <https://apgsensors.com/settler>

Table of Contents

- | | | |
|------------------------------------|-----------------------|---------------------------|
| 1. Description | 5. In the Box | 10. LED Indicators |
| 2. How To Read Your Label | 6. Dimensions | 11. Connect Sensors |
| 3. Warranty and Return Information | 7. Wiring Information | 12. Connect to Explorer |
| 4. General Care | 8. Installation | 13. Regulatory Compliance |
| | 9. Connect to Network | |

1 Description

Settler is a versatile remote monitoring gateway designed for seamless sensor data acquisition via Modbus RS485 and 4-20mA inputs. It supports up to four 4-20mA sensors and multiple Modbus sensors. Collected data is encrypted and securely transmitted to APG's cloud-based monitoring platform, Explorer, using MQTT with AES (Advanced Encryption Standard). Settler offers four connectivity models to ensure reliable communication across various environments:

1. Ethernet: Connects via a standard network cable
2. Wi-Fi: Supports wireless setup through a secure 2.4 GHz network
3. PoE (Power over Ethernet): Streamlines installation by providing both data connectivity and power through a single cable, eliminating the need for a separate power supply at the installation site.
4. Cellular: Connects to any major cellular provider in the USA and Canada.

2 How To Read Your Label

The Settler label indicates the power, 4-20 mA, and Modbus connector pinouts. The manufacturing label contains the part number and the serial number, which is used to identify your Settler in APG's cloud-based monitoring platform Explorer.

3 Warranty and Return Information

This product is covered by APG's warranty to be free from defects in material and workmanship under normal use and service of the product for 24 months. For a full explanation of our Warranty, please visit apgsensors.com/warranty-returns. Contact Technical Support to receive a Return Material Authorization (RMA) before shipping your product back.

If your Settler needs to be returned for evaluation, contact us via email, phone, or online chat on our website. We will issue you an RMA number with instructions. You can also find the form on our website by clicking "RMA" in the web footer, or go to apgsensors.com/RMA-form

- Phone: 888-525-7300
- Email: sales@apgsensors.com
- Online chat at www.apgsensors.com

Please have your part number and serial number available.

4 General Care

Your Settler is very low maintenance and will need little care, as long as it is installed correctly. However, in general, you should:

- Avoid applications for which Settler was not designed, such as extreme temperatures, contact with incompatible corrosive chemicals, or other damaging environments.
- Avoid applications with excessive moisture.

Settler is designed for indoor use only.

5 In the Box

Inside the box you will find:

- Settler Remote Monitoring Device
- Power Connector (2-Pin)
- Modbus (RS485) sensor connector (4-Pin)
- 4-20mA sensors connector (8-Pin)
- Cellular Antenna (Cellular models only)

Ensure you have all components before proceeding.

SETTLER

Remote Monitoring Device

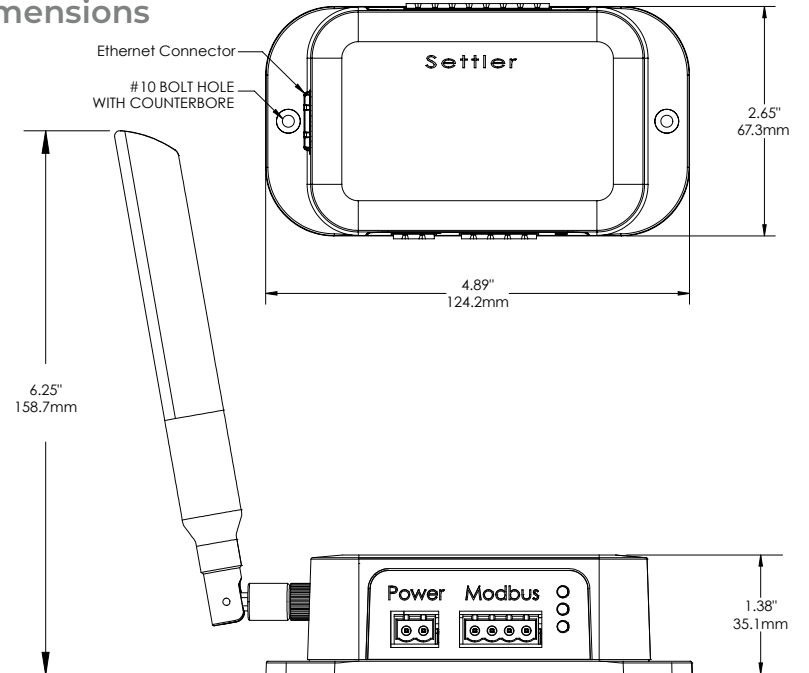
Installation Guide



Automation Products Group, Inc.
1025 W 1700 N Logan, UT 84321
www.apgsensors.com | phone: 888-525-7300 | email: sales@apgsensors.com

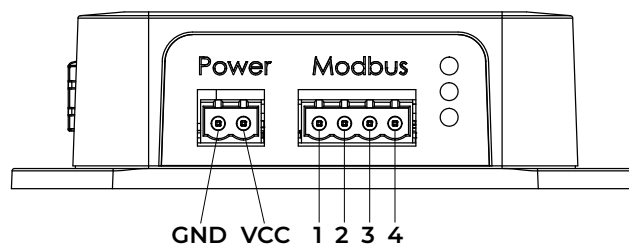
Doc # 9006889
Part # 201182
Rev D 04/2026

6 Dimensions

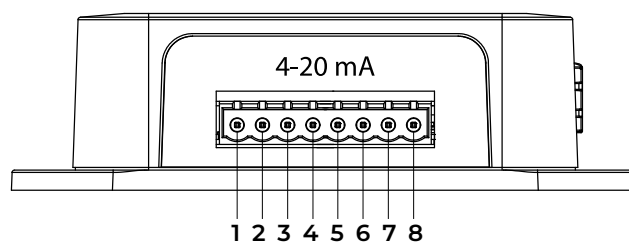


NOTE: Ethernet Connector only available for Ethernet and POE models. Antenna only available for Cellular models.

7 Wiring Information



Modbus Pinout	
1	A
2	B
3	VCC
4	GND



4-20mA Pinout	
1	4-20 in 4
2	V+
3	4-20 in 3
4	V+
5	4-20 in 2
6	V+
7	4-20 in 1
8	V+

NOTE: For PoE models, the 2-Pin Power connector is optional, as power can be supplied via the RJ45 Ethernet port.

Supply Voltage

- 12 to 32 VDC
- 40 mA at 24V

Sensor Power Output:

- 9W (@ 24V) is available to power your 4-20mA or Modbus sensors directly through Settler when using PoE
- 4-20mA Inputs: Active loop power is provided for up to four sensors

8 Installation

Settler is intended for indoor use. It can be installed in environments that meet the following conditions:

- The device is protected from excessive moisture, extreme heat, or corrosive environments.
- Adequate space is provided for wiring connections.
- For Ethernet models: Ethernet accessibility (wired network access is required).
- For Wi-Fi models: Reliable 2.4 GHz Wi-Fi signal coverage in the installation area.
- For Cellular models: Cellular service from any major provider in the USA or Canada must be available.

Tools & Materials Required

- A flathead screwdriver is required to make electrical connections.
- Settler can be mounted using size #10 bolts.
- For Ethernet and POE models: Use a CAT5, CAT5e, or CAT6 Ethernet cable.
- For PoE models: A PoE-enabled switch or PoE injector (802.3af/at) (optional)
- For Wi-Fi models: A mobile device (phone, tablet, or laptop) with Wi-Fi is required for initial setup.

9 Connect to Network

Connect to Ethernet Network

- Use a CAT5, CAT5e, or CAT6 Ethernet cable. Settler will automatically request an IP address using DHCP.
- When the device connects successfully, it will establish a secure link with explorer.apgsensors.com where you can configure your Settler and sensors.
- For PoE models: Simply plug your Ethernet cable into the Settler PoE and a PoE-enabled port. The device will power on and the Green LED will illuminate immediately.

Connect to Wi-Fi Network

- Upon first boot-up, Settler Wi-Fi will broadcast a temporary Wi-Fi access point. The network name will be the device's serial number.
- Use a mobile device (phone, tablet, or laptop) with Wi-Fi to connect to the temporary access point. The password is **12345678**
- Open a web browser and type <http://192.168.4.1> into the address bar to access the configuration page.
- Select your preferred 2.4 GHz Wi-Fi network and enter the credentials. The device will then connect to your selected network and establish a secure link with explorer.apgsensors.com where you can configure your Settler and sensors.
- Settler Wi-Fi will automatically connect to the chosen network when it is available. If the network is unavailable, Settler Wi-Fi will broadcast the temporary Wi-Fi access point to allow configuration.

Connect to Cellular Network

- Connect the provided antenna to the Settler device. Connect power via the 2-pin power connector.
- Settler Cellular will automatically connect to an available cellular network.
- When the device connects successfully, it will establish a secure link with explorer.apgsensors.com where you can configure your Settler and sensors.
- If the yellow LED continues blinking, move the Settler to another location with better cellular coverage.

10 LED Indicators

LED Color	State	Meaning
Green	Solid	Settler is powered on
Yellow	Blinking Fast	Searching for internet/cellular service connection
Yellow	Blinking Slow	Connecting to explorer.apgsensors.com
Yellow	Solid	Successfully connected to explorer.apgsensors.com
Red	Solid	Error detected — check connections and settings

Once the Yellow LED is solid, Settler is fully operational and is sending data to explorer.apgsensors.com

11 Connect Sensors

For 4-20mA inputs:

- Each Settler unit supports up to four 4-20mA sensors.
- Wire each sensor to the corresponding terminals on Settler.
- The number indicated on the pinout (ie. IN4) refers to the Power Line.

For Modbus RS485:

- Wire sensors according to the pinout on the label.
- If connecting multiple sensors, connect and setup sensors one at a time at explorer.apgsensors.com before adding the next one.

12 Connect to Explorer

Sign In

New users are sent an email invitation to sign up in Explorer. Existing users can send invitations to other members of their organization. If you did not receive an invitation email, please contact APG.

Set Up New Sensors

1. Go to explorer.apgsensors.com and sign in.
2. Click "My View" at the top of Explorer webpage.
3. Click the Group card.
4. Click your Gateway card. Check the label on the side of Settler to identify its unique Gateway ID number (serial number).
5. On the Sensors page, click the "Configure Gateway" button on the right.
6. Follow the steps of the Gateway Configuration Wizard.
 - a. Name the Gateway.
 - b. Add sensors. For APG sensors, choose the sensor from the Sensor Model dropdown list. Give the sensor a name. Set the Modbus ID (Modbus sensors) or select the Power Line (4-20mA sensors).
 - c. Set Gateway Timings, Alarms (optional), and Location (optional).
 - d. Click "Finish" to save the configurations and send any pending commands.
7. To see sensor readings, click on the Sensor card and look at the Chart.

NOTE: For a complete description of the features and tools in Explorer, check out the official Explorer User Manual at apgsensors.com/explorer-manual

13 Regulatory Compliance

Settler Wi-Fi Models

This device contains a 2.4 GHz Wi-Fi transceiver based on the Infineon CYW43439 chipset. The wireless module is certified under the following regulations:

FCC ID: 2ABCB-RP2040

IC: 20953-RP2040

FCC Statement

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.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

ISED (Canada) Statement

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's RSS(s). 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 présent appareil contient des émetteurs/récepteurs exemptés de licence qui sont conformes aux CNR d'Innovation, Sciences et Développement économique Canada. 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.

Settler Cellular Models

This device contains a cellular transceiver module based on the Quectel BG95-M3 chipset. The cellular module is certified under the following regulations:

FCC ID: XMRBG95M3

IC: 10224A-BG95M3

FCC Statement

This device complies with Part 15 of the FCC Rules and with Part 22/24/27 as applicable for cellular operation. 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.

This device contains a certified cellular module. The antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter, except in accordance with FCC multi-transmitter procedures.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

ISED (Canada) Statement

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's RSS(s). 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 présent appareil contient des émetteurs/récepteurs exemptés de licence qui sont conformes aux CNR d'Innovation, Sciences et Développement économique Canada. 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.