Asset Monitoring Gateway (AMG) with SNAP ID Overview

The Asset Monitoring Gateway (AMG) with SNAP ID provides commissioning, monitoring, and alarms for up to 20 supported Modbus® and SNAP SIGNAL® enabled sensors and converters. The gateway scans for individual sensors or converters and auto-detects model information, allowing users to change and assign Modbus server ID numbers to commission custom systems.

Identified devices report relevant register data every ten seconds, providing the quickest path to data that Banner Engineering offers for SNAP SIGNAL® and Modbus-equipped sensors. Connected units can be grouped and renamed. All relevant input registers can have threshold alarms assigned to them individually. The alarm status is indicated both on-screen locally by color and mirrored by the light on the enclosure.

All compatible sensors/converters attached to the Gateway are auto-detected locally (SNAP ID). All data and threshold settings/alarms are relayed to and mirrored in the Banner Cloud Data Services (BannerCDS) website using an Ethernet or cellular connection (requires additional BannerCDS data plan).

For more information, refer to the following documents on www.bannerengineering.com:

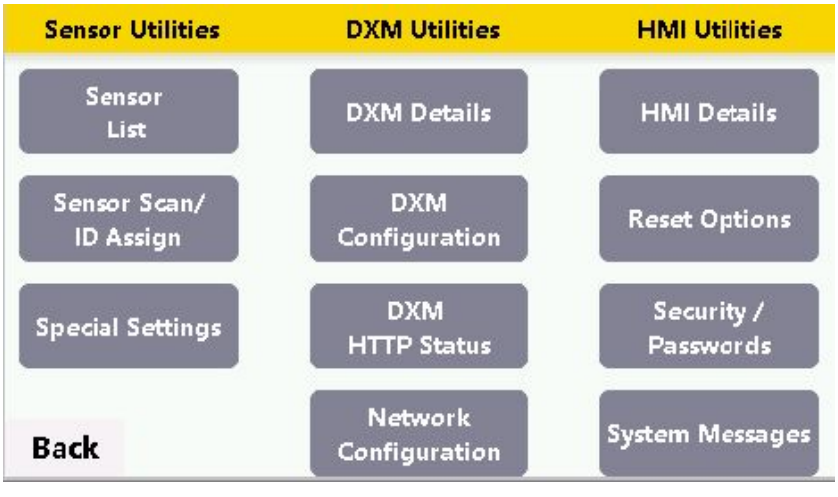
- Asset Monitoring Gateway with SNAP ID Instruction Manual, p/n 234288
- Asset Monitoring Gateway with SNAP ID Brochure, p/n b_51583459

Commission and Assign Connected Sensors or Converters

When commissioning several sensors, **connect each new sensor/converter one at a time** and repeat these instructions for each new sensor/converter.

1. After the AMG has initialized (about one minute), touch the **Utilities** icon in the lower right corner of the main page to go to the main configuration/device information menu.

Utilities screen



2. In the **Sensor Utilities** column, touch **Sensor Scan/ID Assign**.
   The Sensor table will initially be unpopulated.
3. Connect any supported Banner Modbus sensor or S15 converter using a splitter cable or hub with power connected to the homerun cable and a branch connected to the Gateway M12 connector on the bottom right of the enclosure.
   See the Asset Monitoring Gateway with SNAP ID Brochure, p/n b_51583459 for lists of supported S15 converters, Modbus sensors, and accessories.
4. Select **Scan IDs** and touch **YES** when prompted to confirm.

Original Instructions
21-Nov-25

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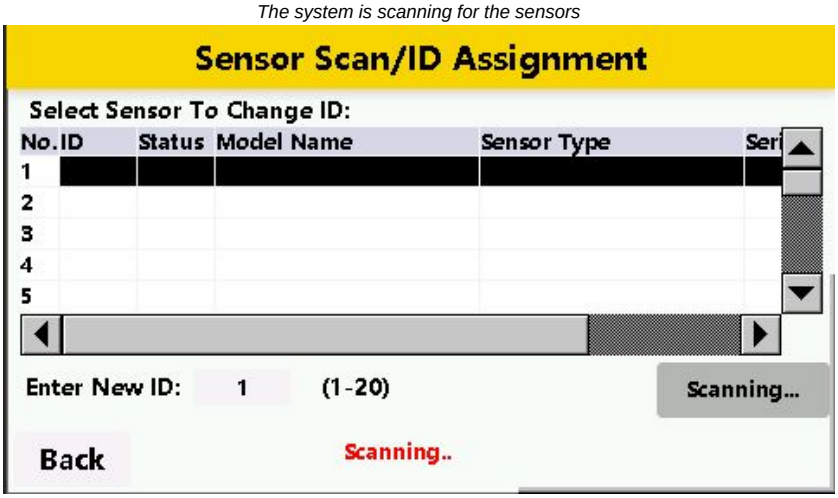
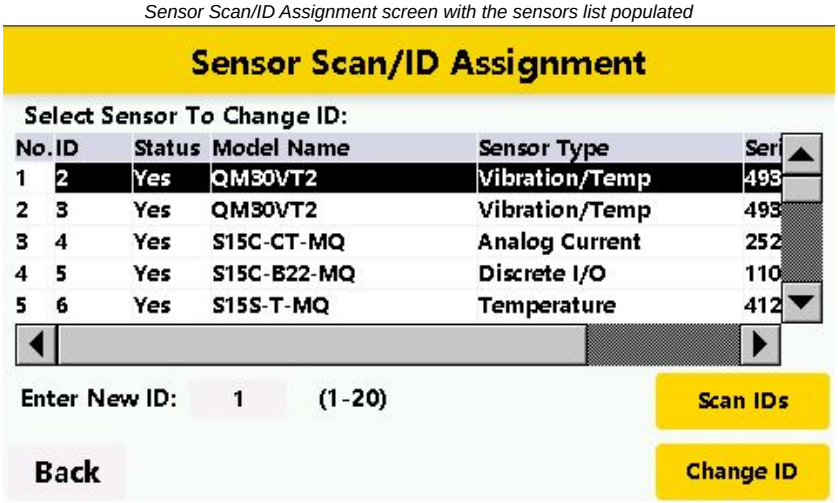
p/n: 233717 Rev. B

ПРОМЭЛЕКТРОНИКА/ sales@prom-elec.com

The system is scanning for the sensors



Sensor Scan/ID Assignment screen with the sensors list populated



The Gateway scans for connected sensors for 20 seconds, as indicated by the red **Scanning....** message displayed at the bottom of the screen. Previously undetected devices appear in the table as ID 1 in the second column. The model name and sensor type should match the attached sensor/converter. When initially commissioning devices, it is important to **connect only one new sensor/converter at a time**. The gateway scans for new devices based on the default SID #1, making it important to **change all identified devices' SID # when you add more than one device.**

5. To change the detected devices' SID #, highlight the sensor by touching the row in which it appears and select **Change ID**. Touch **Yes** to confirm.
   The **Enter New ID** field automatically increments to the closest available SID #. (This field is also manually configurable.) After a SID # has changed, the sensor table repopulates and displays the new SID # associated with the learned device. All previously learned sensors continue to appear in the table unless they are deleted from the system using this screen.

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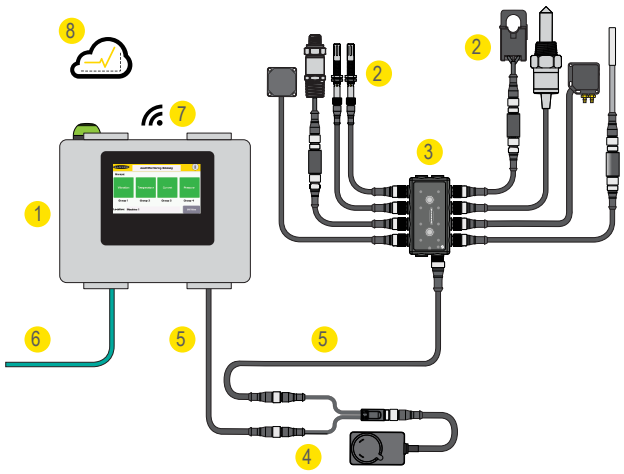
Connection example with limitless combinations of SNAP ID sensors and connectivity accessories



1. Asset Monitoring Gateway
2. Sensor
3. Molded Junction Block
4. Splitter
5. Cordset
6. Ethernet
7. Optional Cellular Connectivity
8. Banner Cloud Data Services

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