Halogen Systems Bluetooth 4-20 Gateway Module with Battery Saver

Overview

The Bluetooth Module (BT SmartBox) provides a Bluetooth and Mobile App for integration of the MP5/6 Sensors into a SENSUS 4-20 mA Smart Gateway. The BL420 OUT Module enables a mobile app for additional functionality.

This enables local calibration and troubleshooting using the Halogen Mobile App. Calibration and diagnostics are displayed on the mobile app to simplify the work of integration. The BT 420 Module is installed easily between the MP5 Sensor and Smart Gateways.

This option enables integration with Smart Gateways without affecting their battery life. Power is supplied from a separate battery and a low power setting for the MP5 sensor via the mobile app that operates samples intermittently.
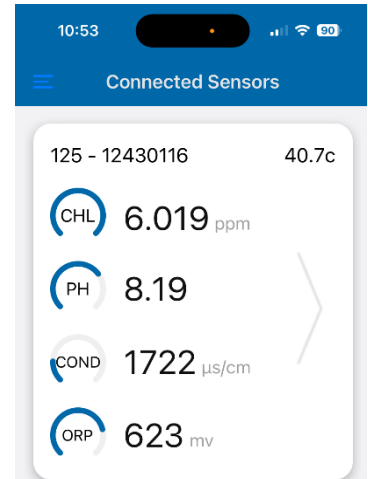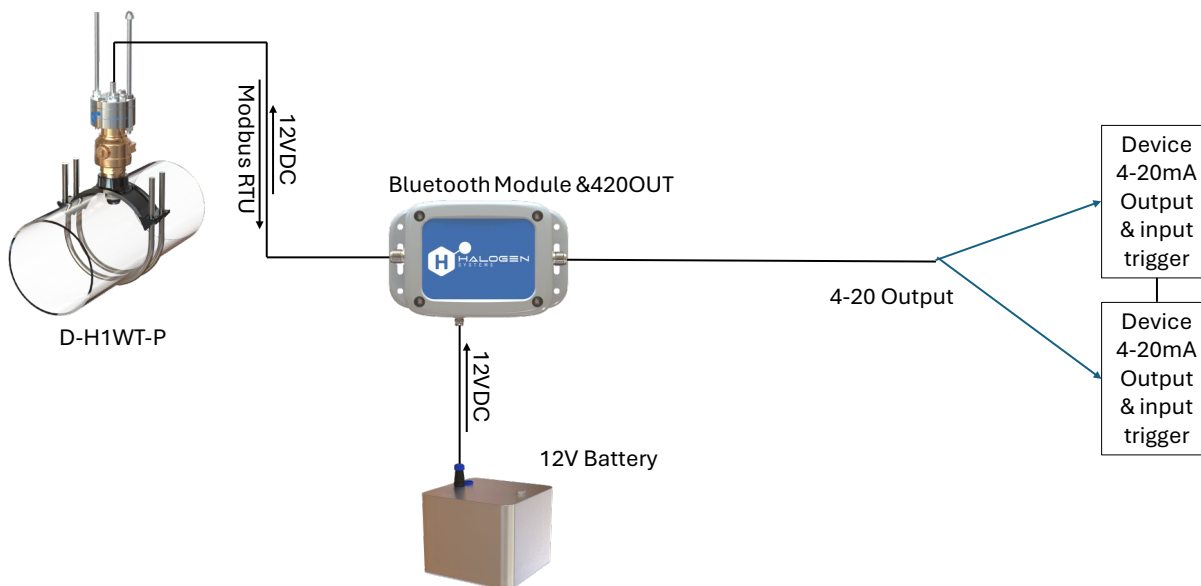

Figure 1: Mobile App

Figure 2: Halogen-SENSUS Layout

- Power Saving feature disconnects power to the MP5 sensor to extend battery life up to 6 months or more.

- Intermittent measurements may be configured in the Mobile App to extend battery life.

- 1 M12-4 for sensor connection.

- 2 M12-5 Connectors each connect to:

  - 2) 4-20 inputs on Gateway

  - 1) Trigger from Gateway

- Magnetic switch to turn on Bluetooth for one hour when activated.

- An onboard SD card allows for the application of future firmware updates directly to the sensor.

- No charge Mobile App.

  - Swiping down on the mobile app brings in the latest measurement to synchronize grab sample measurements for calibration checks.
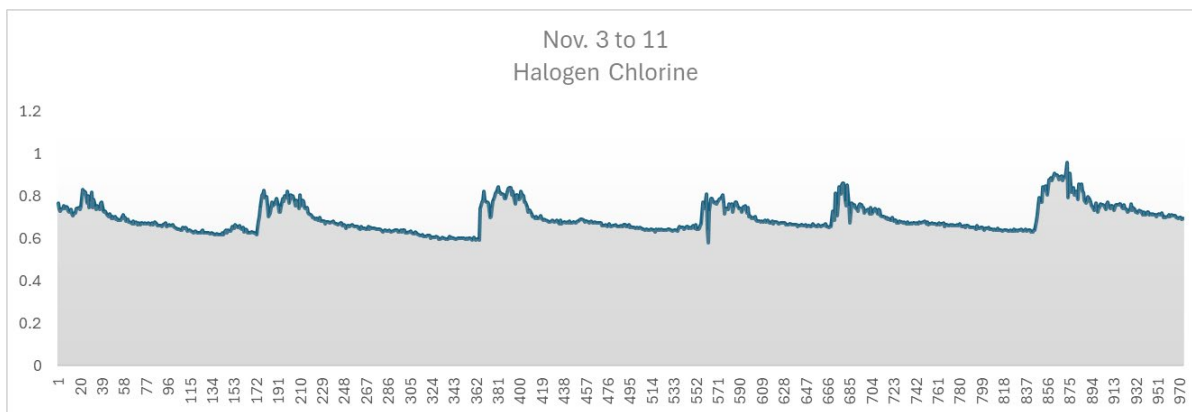

Figure 3: Example of data from Xylem Data Lake Report

Order information

BASE PACKAGE

Bluetooth Module with Power Cycle and 4) 4-20 mA Outputs (BT420 OUT).

CONNECTION PACKAGES

1. 2- M12-5 Cables with leads for connecting to Smart Gateways.
2. Strain relief and 1 meter cable for a battery connection or optional IP68 Enclosure (see below).

OPTIONAL BATTERY MODULE

- 50 or 100 AH Rechargeable LiFePO4 Battery enclosure (battery not included). IP68 Housing for battery with waterproof connection BAT-ENCL.

- 1 meter IP68 conduit.