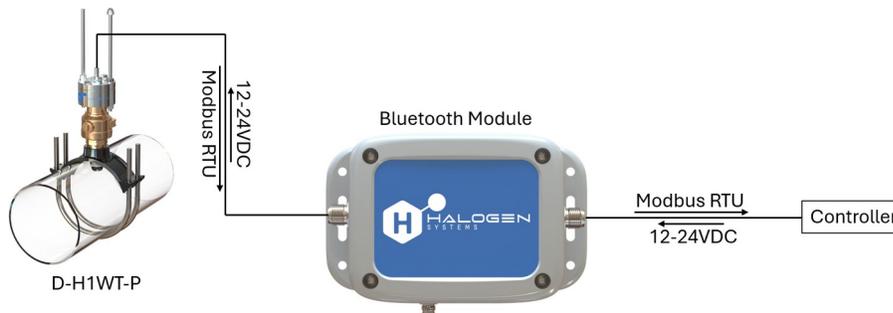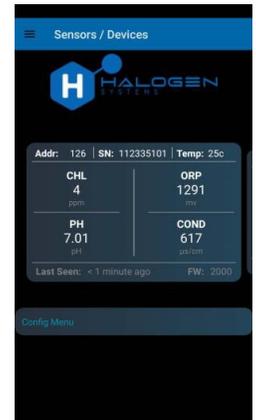# Halogen Systems Bluetooth SmartBox Module with Battery Saver

Overview

The Bluetooth Module (BT SmartBox) provides a Bluetooth and Mobile App for integration of the MP5/6 Sensors into a either a 1) a third-party IoT Modem or 2) Integration with a Controller System. While Modbus communication allows display of sensor parameters on a third-party device, the BT Module enables a mobile app for additional functionality.
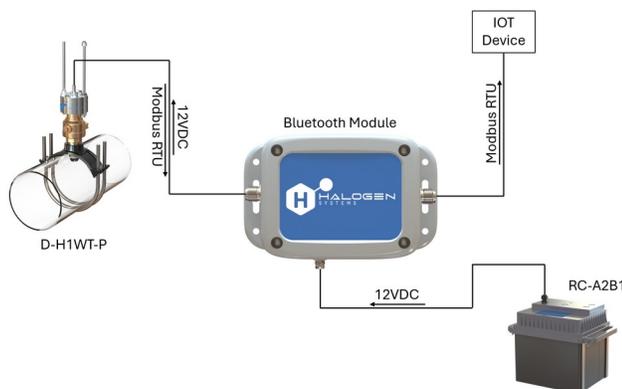
THIRD PARTY CONTROLLER INTEGRATION

This enables local calibration and troubleshooting using the Halogen Mobile App for easy integration with a third-party Controller. The Controller can display all parameters via the Modbus interface. Calibration and diagnostics are displayed on the mobile app to simplify the work of integration. The BT SmartBox is installed easily between the MP5 Sensor and the Controller.

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

- Power is supplied from the third-party controller

- Waterproof IP68 Enclosure

IOT INTEGRATION REMOTE POWER CYCLE

This option enables integration with third party IoT devices without affecting their battery life. Power is supplied from a separate battery and a low power setting for the MP5 sensor via a mobile app.

- Power Saving option (jumper setting, remove) will disconnect power to the MP5 sensor to extend battery life up to 6 months
- Intermittent measurements may be configured in the Mobile App to extend battery life.
- Modbus communications with the IoT device uploads all sensor data.
- A "Measure Now" command initiates and measurement to synchronize grab sample measurements.
- Magnetic switch to turn on Bluetooth for one hour, when activated.

OPTIONAL BATTERY MODULE

- 100 AH Rechargeable LiFePO4 Battery enclosure (battery not included)
- IP68 Housing for battery with M8-3 Connector
- M8-3 Cable

Order information

BASE PACKAGE

Bluetooth Module with Power Cycle (BTPC)

CONNECTION PACKAGES

Third Party Controller

Cable for connecting BTPC to a controller (M12 4 conductor)

Third Party IoT

Cable for connecting BTPC to an IOT (M12-3)

Cable for battery to BTPC (M8-3)

IP68 Enclosure for 50AH Battery

Bluetooth Smart Box		Application	Power	Waterproof Enclosure	Battery Connection	Solar Connector Option	
BT Module for Integration with 3rd Party Controller	BT-SB-E	3rd Party controller integration	No	No	NA	NA	Hook up in series with Halogen MP Sensors. Controller supplies continous power to SB which in turns supplies power to MP Sensor
BT Module for Integration with 3rd IoT & Battery Power	BT-SB-X	3rd Party IoT Remote	Battery*	No	Strain Relief	Add "-S" Suffix	This supplies power to the sensor intermittently to conserve power. Power from the IoT modem is not required to power the sensor. A strain relief cable is provided to connect a cable. Use this when a rain tight enclosure will be provided
BT-SB-B - With Waterproof Enclosure	BT-SB-B	3rd Party IoT Remote	Battery*	Yes	Waterproof tubing connector	Add "-S" Suffix	This supplies power to the sensor intermittently to conserve power. Power from the IoT modem is not required to power the sensor. A waterproof tubing connection is provided to connect a cable to the battery. Use this if a waterproof enclosure is required
Solar Connector Option						Add "-S" Suffix	This adds a solar connector to the Smart Box for connecting a solar panel. Wires from this connector terminate in the waterproof enclosure and can be connected inside to trickle charge the battery