

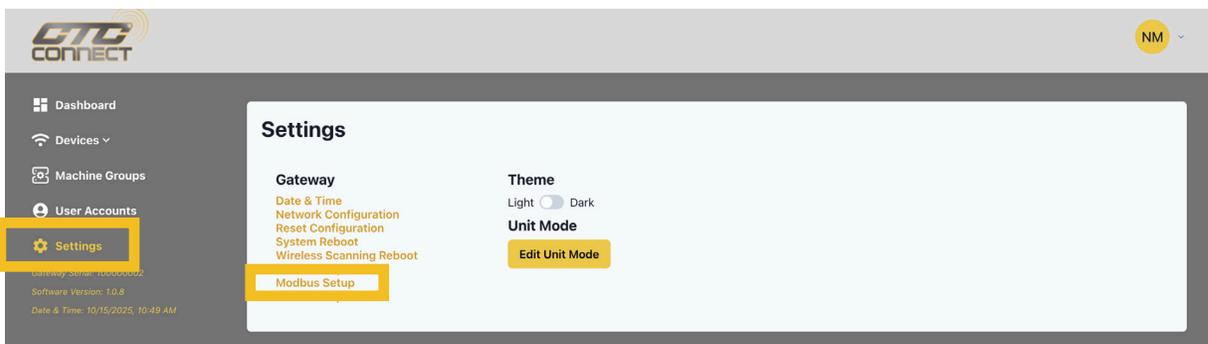


# MODBUS PROTOCOL FOR CONNECT LINE WIRELESS GATEWAYS

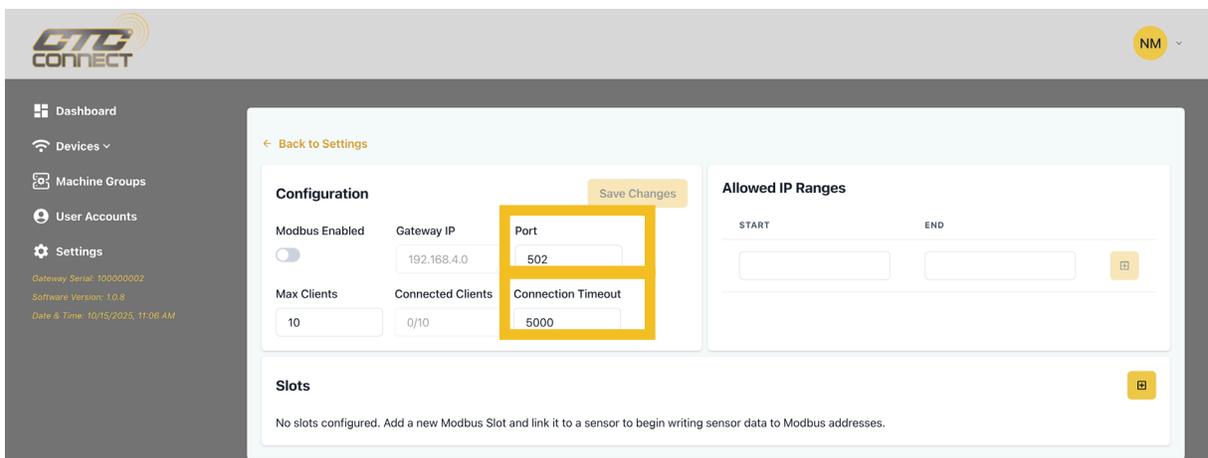
Modbus is a protocol for communicating with Industrial Control Systems over Ethernet TCP.

## To configure Modbus:

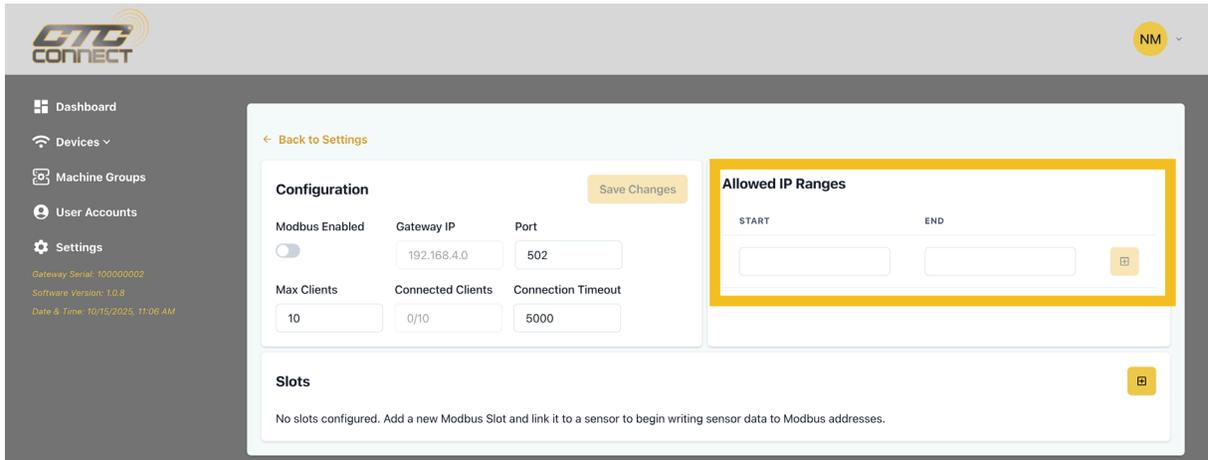
- 1 Navigate to the Settings page in the ConnectView™ Web App, then click Modbus Setup:



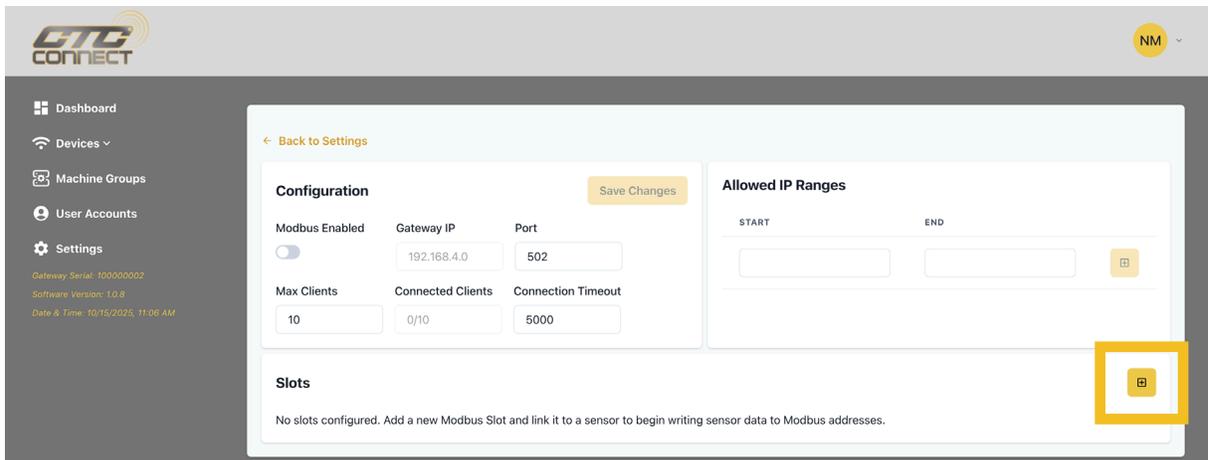
- 2 Enter the required parameters such as Port, Connection Timeout, and other relevant options:



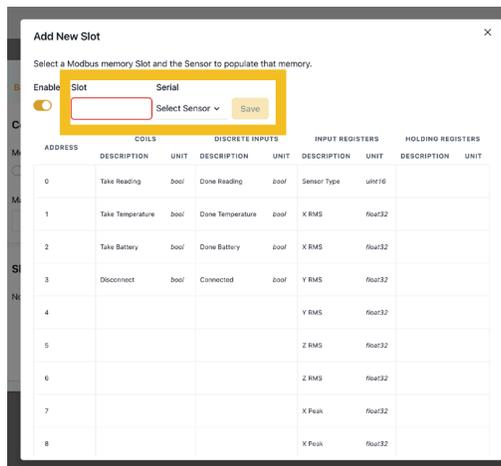
3 Optionally, you can enable IP range filtering for additional access control:



4 To determine which ConnectSens™ sensors are exposed through Modbus, create a slot - click the yellow "plus" button in the upper right corner of the slots section:



4 Each slot requires an integer ID and a selected sensor.



A slot represents a group of 48 consecutive addresses, which corresponds to the data displayed in the UI:

The screenshot shows a dialog box titled "Add New Slot" with a close button (X) in the top right corner. Below the title, there is a subtitle: "Select a Modbus memory Slot and the Sensor to populate that memory." The dialog contains a form with the following elements:

- An "Enable" checkbox, which is currently checked.
- A "Slot" input field, which is empty and highlighted with a red border.
- A "Serial" dropdown menu, currently set to "Select Sensor".
- A "Save" button.

Below the form is a table with the following columns: ADDRESS, COILS (DESCRIPTION, UNIT), DISCRETE INPUTS (DESCRIPTION, UNIT), INPUT REGISTERS (DESCRIPTION, UNIT), and HOLDING REGISTERS (DESCRIPTION, UNIT). The table contains 8 rows of data:

ADDRESS	COILS		DISCRETE INPUTS		INPUT REGISTERS		HOLDING REGISTERS	
	DESCRIPTION	UNIT	DESCRIPTION	UNIT	DESCRIPTION	UNIT	DESCRIPTION	UNIT
0	Take Reading	bool	Done Reading	bool	Sensor Type	uint16		
1	Take Temperature	bool	Done Temperature	bool	X RMS	float32		
2	Take Battery	bool	Done Battery	bool	X RMS	float32		
3	Disconnect	bool	Connected	bool	Y RMS	float32		
4					Y RMS	float32		
5					Z RMS	float32		
6					Z RMS	float32		
7					X Peak	float32		

This structure ensures organized mapping of sensor information for efficient Modbus communication.

Once a slot is selected, the address on the left of the table will update to show where the data is being mapped to.

Use this link to view the [Address Map excel spreadsheet](#).