

# Firmware Instructions for 4043E and 4042E Sensors

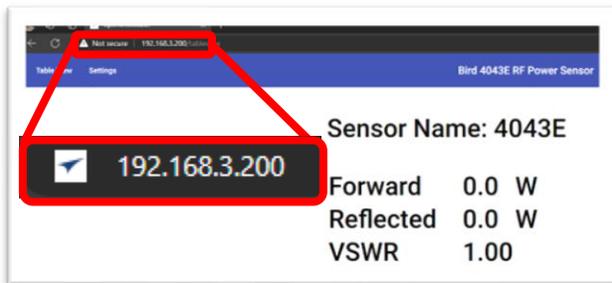
Keeping your 4043E and 4042E sensors up to date with the latest firmware is essential for ensuring they operate at peak efficiency and with all the latest features and security updates. This guide provides a step-by-step walkthrough for updating your sensor's firmware, ensuring that even those new to the process can successfully enhance their equipment without hassle. Whether you're looking to improve functionality, fix bugs, or enhance the security of your sensors, this firmware update guide is your go-to resource.

Starting with ensuring a stable connection to your sensor, the guide takes you through accessing the sensor's built-in web page, navigating to the update section, and uploading the firmware file. We emphasize the importance of patience during the update process, which could take up to 30 minutes, and provide insights into what steps to take upon completion of the update. Additionally, we cover how to access sensor readings and adjust settings post-update, including handling username and password changes.

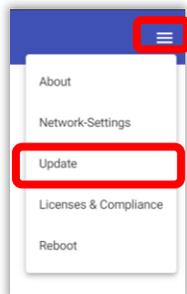
By following these instructions, users of the 4043E and 4042E sensors can confidently keep their devices up to date, maintaining optimal performance and security.

## Procedure

Ensuring that you have a good connection to your sensor. (See connection Guide for more details) Then enter your sensors IP address in the address bar of your web browser to access the built in web page.



Then click on the system menu button in the top right corner and select Update.



Now select Upload File and navigate to the file location where you extracted and stored your Firmware update file.

### Firmware Update Utility

Upload update file. System will automatically apply update. Do not navigate away from update page while update is in progress. Doing so will cause update to fail. Apparent lack of progress for several minutes near end of the apply update phase is normal. Allow 15 to 20 minutes for update to complete.

**Upload File**

Perform a full integrity check of update file before applying. Could add up to 10 minutes to update process.

Confirm that you would like to apply the Update and the process will continue.

Apply Update?

Currently installed firmware: bird-4043e-release-1.0.20210507.1  
Do you want to install bird-4043e-release-2.1.20240301.1?

**Apply** Don't Apply

Note: Applying the update could take as long as 30 minutes so please be patient.

Once completed select Refresh to complete the installation.

Update Successful

The sensor firmware update was completed successfully. Reload page to complete update.

**Refresh**

To view the sensor readings, click on Table View and you will see the sensors display.

**Table View** Settings Bird 4043E RF Power Sensor Login

**Sensor Name: 4043E**

Forward	0.0 W
Reflected	0.0 W
VSWR	1.00
Temperature	36.5 °C
Uptime	0:00:09:43

To view or change settings enter your Username and Password. If the previous version did not have password capabilities the default username and password can be used:

**Username:** admin

**Password:** 123456789

Note: If the sensor is reset the default password will change to the sensor's serial number.

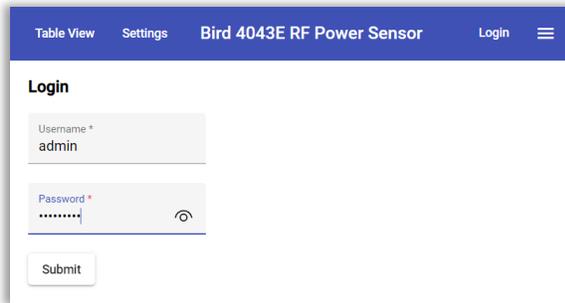


Table View Settings Bird 4043E RF Power Sensor Login

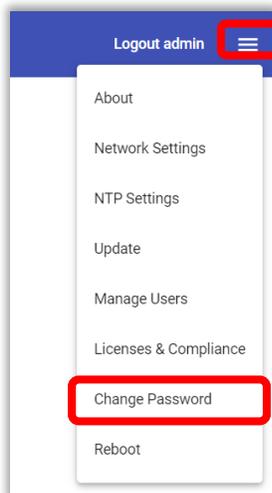
**Login**

Username \*  
admin

Password \*  
.....

Submit

After your initial login, it is highly recommended that you change the admin password. Leaving the default password will leave your device vulnerable. To change your password, select the system menu and select Change Password.



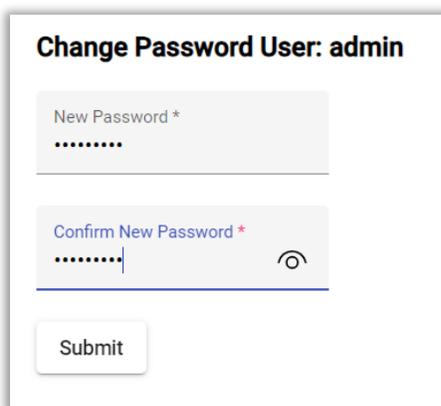
Logout admin

- About
- Network Settings
- NTP Settings
- Update
- Manage Users
- Licenses & Compliance
- Change Password**
- Reboot

Here are some things to keep in mind when selecting a username and password.

- Usernames and passwords are case sensitive.
- There is no minimum password length.
- Passwords can be up to 100 characters in length.
- The password supports Unicode characters.

**CATION:** It is the user's responsibility to choose a strong password.



**Change Password User: admin**

New Password \*  
.....

Confirm New Password \*  
.....

Submit

You are not ready to use your updated sensor.

## Troubleshooting Section

### Issue: IP Address Not Loading in Web Browser

**Description:** Sometimes, when entering the sensor's IP address into a web browser, the page does not load immediately.

**Solution:** Please allow a few moments for the connection to establish. If the page does not load after a short wait, check your network connection and verify the IP address.

### Issue: Download Fails or Stalls

**Description:** The download process may fail or stall.

**Solution:** Ensure you have a stable internet connection. If the problem persists, try restarting the download. Check for any network restrictions or firewall settings that might be blocking the download process.

### Issue: Loss of Power During Update

**Description:** If the sensor loses power during an update, it may cause update fail.

**Solution:** It is critical to ensure that the sensor is connected to a reliable power source during the update. If power is lost, do not attempt to restart the sensor; instead, restart the update process.

### Issue: Mender File Selection Does Not Start Upload

**Description:** After selecting the mender file, the upload process does not initiate.

**Solution:** Confirm that the file format is correct and that the file is not corrupted. Check if the browser or system settings block uploads, and ensure that all required permissions are granted for the upload process.