

IS-4000

Firmware Upgrade

Download the Firmware Upgrade

Download the latest firmware version and Flow Meter Tool software from <u>www.badgermeter.com/software-firmware/</u> to your hard drive. Extract the files.

Establish and Verify a Connection

1. Connect the computer to IS-4000 meter through the USB cable. The USB port is on the left side of the enclosure.



- Select the computer's Settings > Connected Devices feature.
- 3. Find the USB Serial Device and record the COM port. If you have multiple USB serial devices—or are unsure which one is connected to the IS-4000 meter disconnect the USB cable and reconnect it. You will see the USB serial device reappear on the list when the cable is reconnected.



- Open the Flow Meter Tool installed on the laptop or PC. Go to Start > All Programs > Badger Meter to open the flow meter tool application.
- 5. From the initial screen, select Communication Settings.



6. Select **IS-4000** as the Device type and select the COM port connected to the IS-4000 meter.

Communication prop	erties		<u></u>		×
Device type	IS-4000				~
Modbus address Security password	1	Meter Bus Communicate address	via MeterBus		
COM IrDA Tcp/lp					
Select port	COM9 USB Serial	Device (COM9)			~
Baud rate	9600		~	Refre	sh
Data bits	8		~		
Parity	Even		~		
Stop bits	One		~		
	Reset to default				
Modem					
Use Modem Profile	Dial Dial	Phone Number			
			ОК	Canc	el

- 7. Make sure the Modbus address, baud rate and parity match the IS-4000 meter settings. The default settings are Modbus address 1, 9600 baud, even parity. The data bits and stop bits should always be set to 8 and 1 respectively for Modbus RTU.
- 8. Connect to the IS-4000 and view Flow Meter settings to verify the connection.



9. Check the firmware version on the Display & Info tab.

tual values	Meter Setup	Measurements	Inputs/Outputs	Clear Totals	Display & Info	
Display						
Design	ation Current			Current		
Design	ation Water Le	vel		Level		Refresh
Design	ation Flow			Flow		
Design	ation Volume			Volume		
Design	ation Tag			Tag: IS-40	000	
Decimal places for length values		1 🗘		Modify		
Decima	al places for flo	w values		6	<u>+</u>	
Decimal places for volume values		0				
Info						
Info: Ap	plication Vers	ion		1.2.04		
Info: Co	mpile Date			Mar 7 201	8	
Info: Co	mpile Time			10:41:20		
Info: OT	P Boot Check	sum		de2a		
Info: Fla	sh OS Checks	sum		add2		
Info: Ide	entification Nu	mber		00000000		



Installation Manual

Update the Firmware

1. From the Flow Meter Tool, select **Update Flow Meter** firmware.



Start	Select firmware file

- 3. Navigate to the location where you saved the firmware file.
- 4. Select the **.bin** file of the new IS-4000 firmware file and click **Open**.

iSonic_A_v1.2.04.bin

5. Click on Start.



6. The firmware update will delete all data logging files to free space on the flash drive for the upload firmware file. You must confirm the deletion (or interrupt it and download data logs).



- 7. The *Flow Meter Tool* starts uploading the firmware file to the flow meter.
- 8. Wait until the firmware update process is complete. Do not disconnect or power down the IS-4000 meter during this process.

Firmware update		
Current device	IS-4000 (IS-4	1000)
Amplifier serial number	00000000	
Current firmware version	1.2.00	
29440/227328		
File is uploading to Flow Meter,	please wait	

9. You are prompted to reset the connected flow meter to finish the firmware update. Click **Yes**.

nware up	date			
?)o you wan	t reset connect	ed Flow Meter to finis	h firmare update?

- 10. The meter will cycle through several screens.
- 11. After reset, the Flow Meter Tool shows the new firmware version. Click **Close** to exit the Flow Meter Tool.

Amplifier serial number	00000000	
Current firmware version	1.2.00	
irmware has been undated no	www.ercien.ic.1.0.04	

12. If the message does not appear after the meter reboots, check the computer's **Settings** > **Connected Devices** feature. If you see this driver and not the USB Serial Device, unplug the USB cable from your computer then plug it in again. The USB Serial Device should reappear.



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