# Steelhead Data Logger





Smart Phone QuickStart Guide

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# <u>Step 1</u>

Find the Steelhead App from Apple Store or Google Android "PLAY" App Store. Use "Steelhead" as the search term.



# <u>Step 2</u>

The app will only take a few moments to download. Allow access to devices Bluetooth. Then select your region. It will be "Global" for most users.

11:02 - App St	ere.		i 🕈 🔳
	STEEL STEEL		
	"Steelhead" V Use Blu This app requires B find and connect to Don't Allow South East Asian located in Mainlar	Would Like to etooth luetooth access to Steelhead devices OK countries. Servers ad China	ppe.

#### Step 3

Log in using your existing Stevens-Connect Account. Select "Remember Me". If you do not have a Stevens-Connect account, you can sign up for a Mobile Account on the bottom of this screen.



# <u>Step 4</u>

Once you are logged into the app. You will see the Steelhead loggers that are in close proximity to your mobile device. If none appear, check the Steelhead is turned on. There is a round panel on the back of the Steelhead that can be opened revealing an ON/OFF switch.



# Step 5

After you select your logger, you will need to authenticate the app to the logger. The default password is "password", select "Remember Me". You can set up a password in the settings selection or just leave it on the default. By selecting "Remember Me" you won't have to go through authentication again for your mobile device.

11:21	all 🗢 🕞
Authentication	×
password	Q
Remember Me	Forgot Password?
Cancel	Submit

# <u>Step 6</u>

Once connected to the logger, you have a number options. Note that the Steelhead logger may have up to 30 parameter total. Those sensor inputs can be SDI-12, Modbus, or Pulse.



# Step 7 SDI-12 Setup

If your logger has no configuration preloaded, you can set one up. Connect an SDI-12 sensor. Go into the SDI-12 Transparent Mode. Here you can find the address with the "?!" command, change the address with the "aAb!" command or any other standard or extended SDI-12 command.

SDI-1	2 Transparent Mode
	Feb 16, 2023, 11:35:41 AN
	?!
Feb 16, 2023, 1	11:35:41 AM
1	
	Feb 16, 2023, 11:35:56 AN
	21
Feb 16, 2023, 1	1:35:57 AM
1	
	Feb 16, 2023, 11:36:11 AN
	1!!
Feb 16, 2023, 1	11:36:11 AM
112STEVE	NSW0936404.1STGSN0
000000	
DI-12 Comman	hd
11!	

# Step 8 SDI-12 Setup 2

If you have just one SDI-12 sensor or if you already have your SDI-12 sensors address, you can just go into the SDI-12 Section under Steelhead Settings and click "Scan For Sensors"

11:39	
≡ SH_C0_05	9_Keith
SDI-12 S	ensors
STEVENSW_093640	Address:1 💌
K Back	Save

# Step 9 SDI-12 Setup 3

The Steelhead will give the SDI-12 Sensor a default name that is determined from the SCAN (i.e. al! commands). Click on the sensor and you can see options to set up the logging from "aM!" up to "aM4!" 9 parameters for each. Here you can change the sensor name and setup the logging configuration for each SDI-12 sensor.

	al 🕆 🖿		at 🕆 🔳
← SH_C0_09	_Keith	≡ sн_co_o9_к	eith
SDI-12 Se	ensors	093640_0_2	•
Scan Add New S	Sensor	093640_0_3	•
STEVENSW_093640	Address:1 👻	093640_0_4	•
		093640_0_5	
		M index	0
		P Index	5
		Parameter Unit	None
		Scale	1
		Offset	0
		Rem	iove Parameter
		093640_0_6	•
		K Back	Save

# Step 10 SDI-12 Setup 4

Or you can add a sensor using the add sensor button. You can give the parameters names and units. You can also set a scale and offset to the parameter. Don't forget to click "Save".

SDI-12 Sensor Setup	)
Sensor	
Sensor Name	
Address	
	Ŧ
Sensor Template	
Sensor Templates	÷
M M1 M2 M3	м

# Step 11 SDI-12 Setup 5

After you configure the Sensors, you can set the logging and reporting intervals. The reporting interval is how often the logger sends the data to the cloud-based Stevens-Connect. If you don't have a cellular option, reporting is disabled. The logging and reporting intervals are the same for all sensors connected to the logger.

	141
2H_C0_09_Ke	ith
Logging and Report	ing Interval
Sensor Logging Interval	
5 minutes	Ť
Sensor Reporting Interval	
10 minutes	~
Sensor Warmup Time (ms)	
1500	

#### Step 12 SDI-12 Setup 6

You can click "Current Readings" to take a reading of all configured sensors on demand. This is a convenient feature for testing sensors or seeing real time data in the field.

← SH_C0_09_K	leith
Current Rea	dings
February 16, 2023, 12:	14:06 PM GMT-8
STEVENSW_093640	
WFV	0.343 WFV
EC	0.091 S/m
Temp	21.7 °C
093640_0_3	71.1
093640_0_4	0.086
093640_0_5	22.977
ER	30.999
093640_0_7	

# Step 13 Download Data

Click "Download Data" to download logged data. You can select the date range of the total logged date to be downloaded.

SH_CO	_09_Keith
Sens	or Data
Start Date	Feb 14, 2023
Start Time	12:00 AM
End Date	Feb 16, 2023
End Time	11:59 PM
Total Count: 152	
Get all readings	s in the date range

# Step 14 Download Data

After you select a date range, you can email a csv file to a destination email address. You will need to have the email setup on your mobile device and the app uses the default email address setup in the device.

12:30	.ı  ? 🗖
Cancel	
Steelhead Data cda0bb07626f_	_2023-02-14T00.00
To:	
Cc/Bcc, From: kb	ellingham@stevenswater.com
Subject: Steelhea cda0bb0 0_to_202	d Data 17626f_2023-02-14T00.00.0 23-02-16 12.29.42.csv
cda0bb07629.42 167 KB	2.csv
Sent from my iP	hone

# <u>Step 15</u>

The Summary page give you a description of the configuration on the logger.

Settings	Summary
Last Modified(ms)	1676001029000
Last Modified By	Keith Bellingham
Logging Interval(s)	300
Logging Interval Fast(s)	300
Reporting Interval(s)	600
Reporting Interval Fast(s)	900
Sensor Warmup(ms)	1500
Station Name	SH_C0_09_Keith
Cloud Method	HTTPS
Cell APN	globaldata.net
Cell Auth Type	1

# <u>Step 16</u>

With the Events feature, you can change the logging and/or reporting interval based on an event such as a parameter value reaching a defined threshold.

Event 1	
Evener	
Common Settings	
Fast Logging Interval (s)	
2 minutes	~
Normal Logging Interval (s)	
5 minutes	
Fast Reporting Interval (s)	
	Ŧ
Normal Reporting Interval (s)	
10 minutes	
Individual Settings	
Sensor Name	
STEVENSW_093640	Ŧ
Parameter Name	
	Ŧ
Parameter name is required!	

# <u>Step 17</u>

The Advanced tab give you access to some advanced features such as syncing the logger's clock with your mobile device (for loggers without a cellular option) and setting up an optional password for the logger.

1:09	. ?=
← SH_CO_09_Keith	
GENERAL	ADVANCED
Communication Settings	Steelhead Password
Battery	Sync Time

# <u>Step 18</u>

Swiping to the left gives you a second menu with a few more advanced screens.

