**Engineering Note: EN0116 Using Postman to retrieve sensor live data**

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| Summary: | An explanation of the process to find a sensor and retrieve live sensor data using Postman application |
| Products affected: | Hydro-View (HV05) and Hydro-Hub (HH01) |
| Revision Date: | 01/10/2024 Author: S.Cook |

# 1 Introduction

Hydro-View (HV05) and Hydro-Hub (HH01) units both implement the Hydro-Net API. The Hydro-Net API is a REST API that can be used to send data to and retrieve data from the units. The Hydro-Net API Developers guide (hd0801) describes each function call in detail.

Postman ( https://www.postman.com) API is a useful tool to test and develop API calls to the Hydro-Net API.

Following is an example and explanation of the steps required to retrieve live data from a sensor.

# 2 Identifying the address of the unit

On a Hydro-View the I.P address is displayed in the I.P address settings on the systems page.

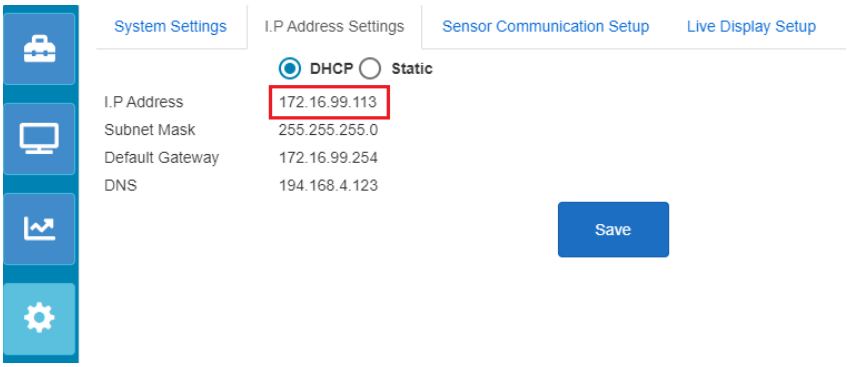


**Figure 1 - I.P Address setting**

If there is only one device on a mdns enabled network then the device can be reached by typing “hydrohub.local:5000”. Another option is to use I.P scanner software to find devices named HydroHub.

# 3 Using the API guide

The API guide states the calls, the type of calls, parameters for the calls and the format of the response. On a Hydro-Hub and Hydro-View the sensor network port is “/dev/ttyAMA0” however a list of serial ports can be obtained using the “GetSerialPorts” request.

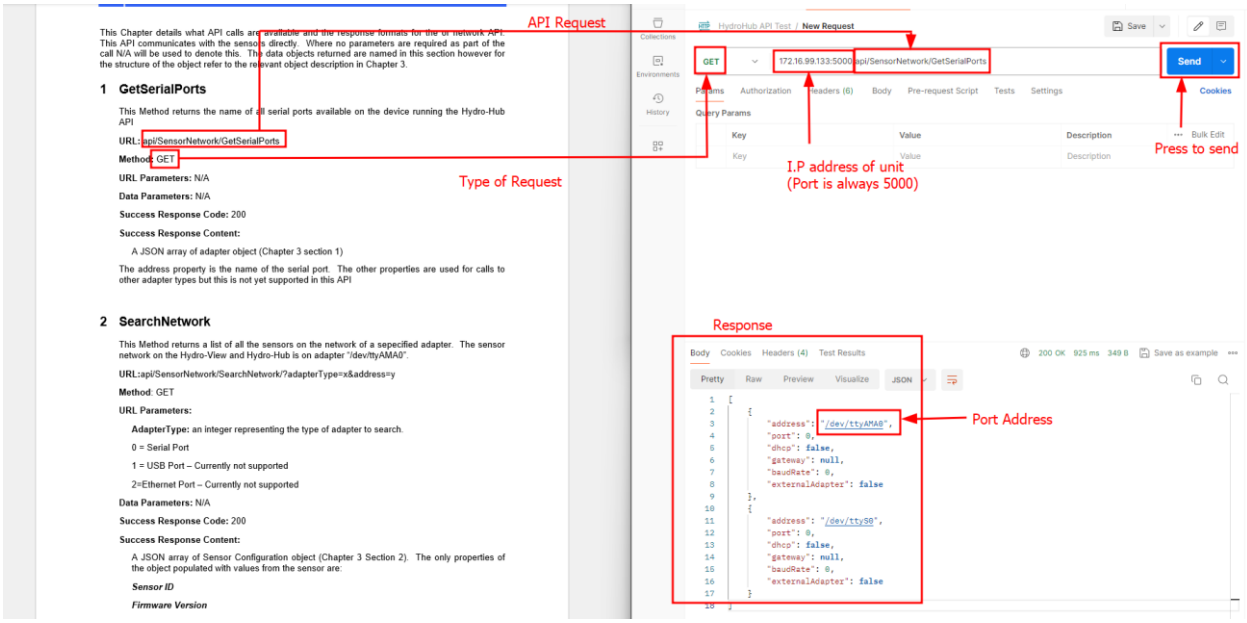


**Figure 2 - GetSerialPorts Request**

# 4 Search the network

The adapter type is a serial type, 0, and the address is the serial port of the sensor network port ,ttyAMA0. Send the search network request with these parameters to return a list of sensors connected to the unit. The ID field of each sensor can be used in subsequent requests to communicate with specific sensors

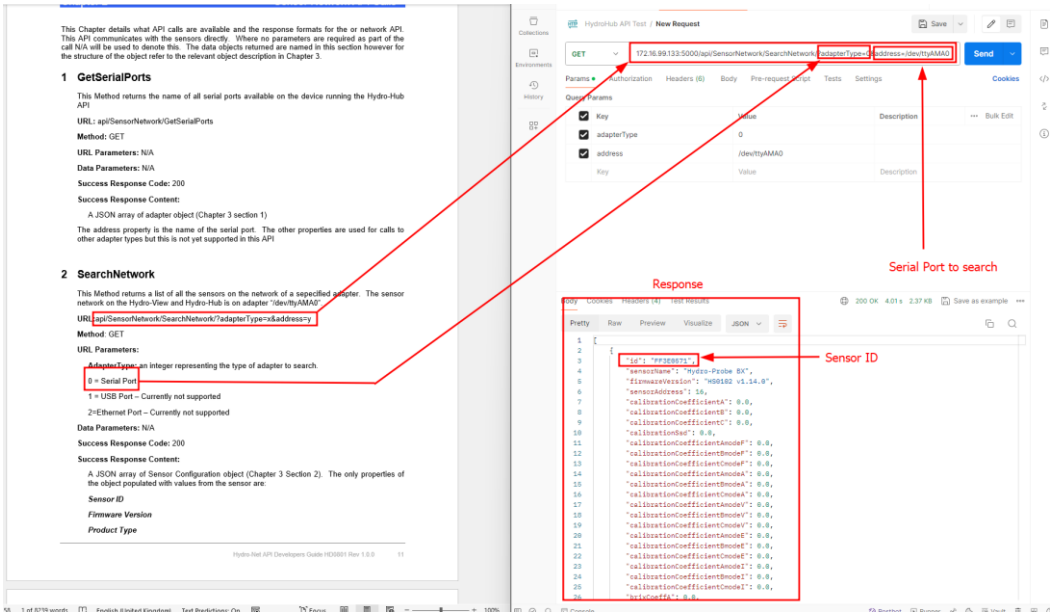


**Figure 3 - Search the network**

# 5 Retrieve live values

To retrieve the live values from a sensor send the ‘GetCommonLiveParameters’ request passing the sensor id as a parameter. The live values of the sensor will be returned.

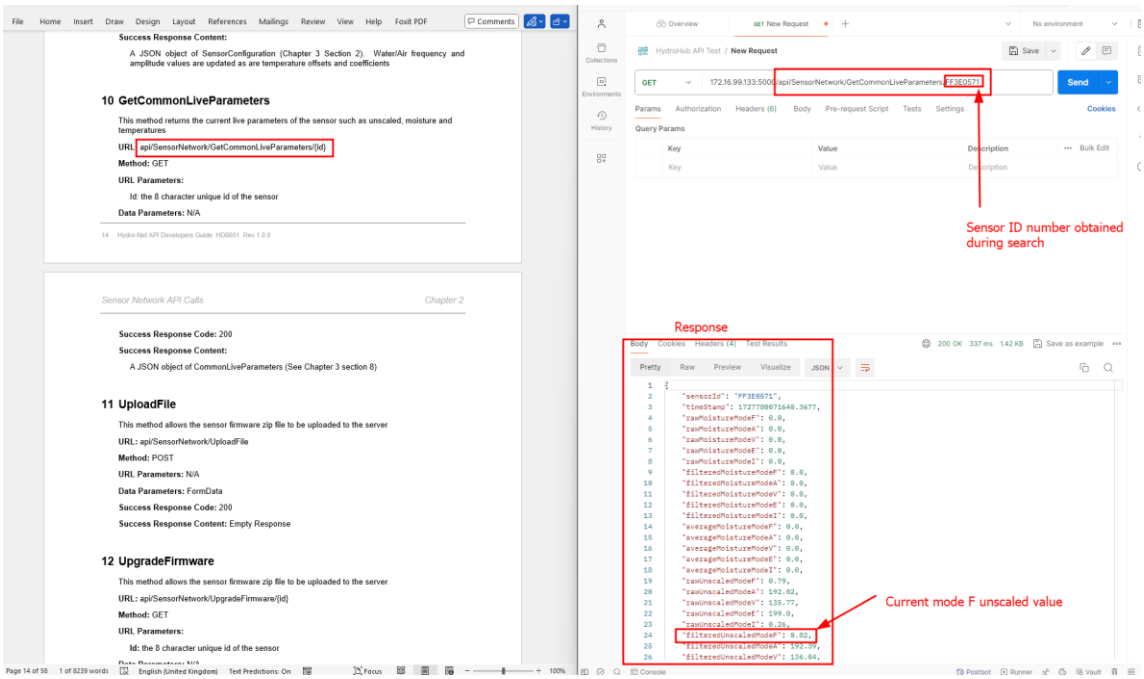


**Figure 4 - Retrieve live values**