



**KANOMAX**  
*The Ultimate Measurements*

# Multi-Channel Anemomaster PRO Software for Windows

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Model 1590-40

User's Manual

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# 1. General Overview

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This manual describes Multi-Channel Anemomaster PRO Software (hereinafter, "Software"). This Software enables the remote operation of Multi-Channel Anemomaster PRO, measurement data displaying, and data saving in the form of CSV files (\*.CSV).

## 1) Operating Environment

OS	Microsoft Windows 10
Language	English, Japanese, Chinese
Interface	Ethernet, USB serial
RAM	1GB or more
HDD capacity	At least 500 MB of available space
Compatible model	1590-0G

## 2. Software Setup

- 1) Download "PC Software and Device Drivers" from our download page and save it to any folder. Open the saved file in Explorer and copy all the files. Go to the downloaded folder and paste them. The files will be unzipped.
- 2) Please close other programs before setting up the software. Open the English folder in the downloaded folder, and then open 32bit or 64bit. (Select the version that matches the Windows 10 system you are installing.)

- 3) Double-click the setup file  to display the dialog box as shown in Figure 2-1.

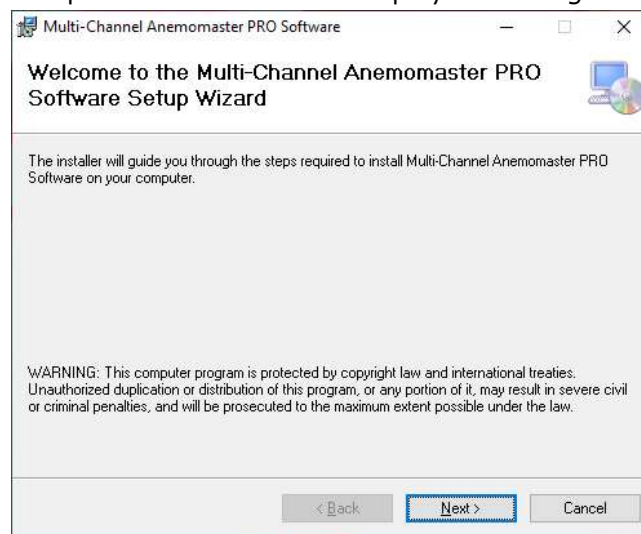


Figure 2-1 Initial Setup Screen

- 2) Click the **Next** button to display Figure 2-2 below. The default location to install is the download file folder. To install into a different drive or a folder, click "**Browse...**" and choose the required location.

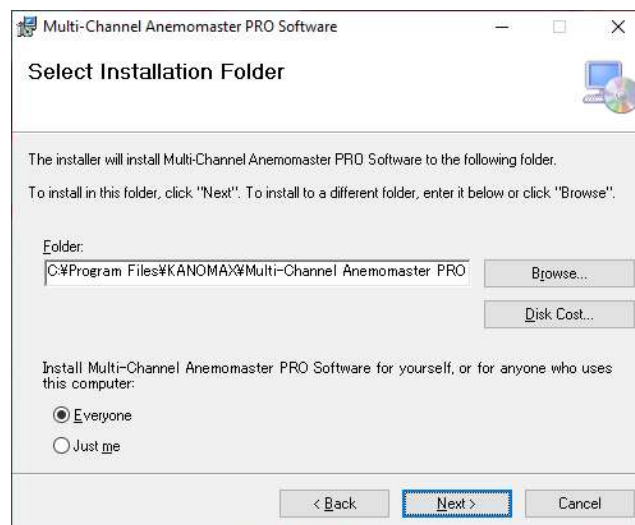


Figure 2-2 Select Installation Folder Screen

3) Click the **Next** button to display Figure 2-3 below.

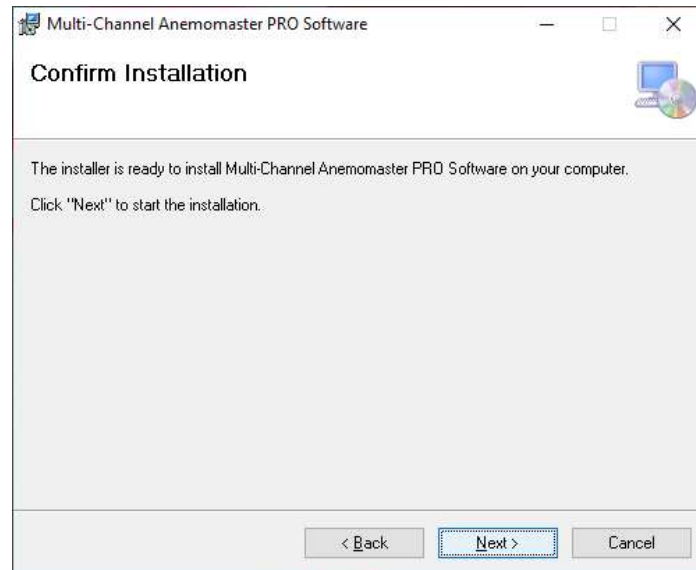


Figure 2-3 Confirm Installation Screen

4) Click the **Next** button to display Figure 2-4 below.

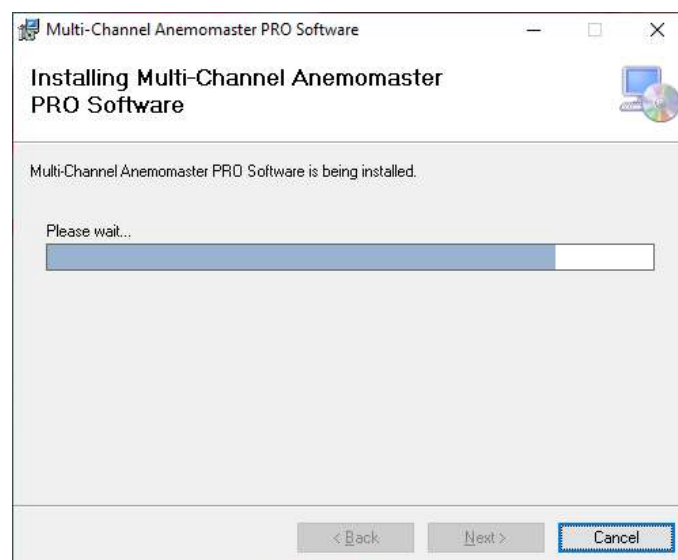


Figure 2-4 Installation Progress Bar Screen

5) When the installation is complete, Figure 2-5 will be displayed.

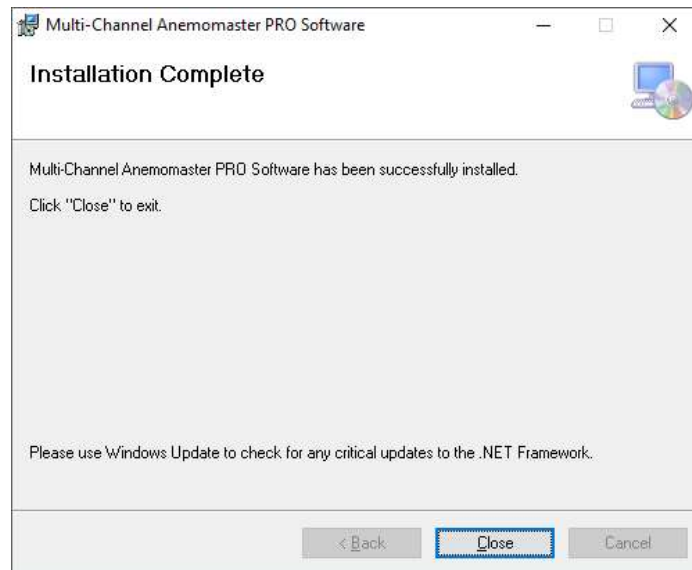


Figure 2-5 Installation Complete Screen

6) Click the **Close** button to exit the setup.

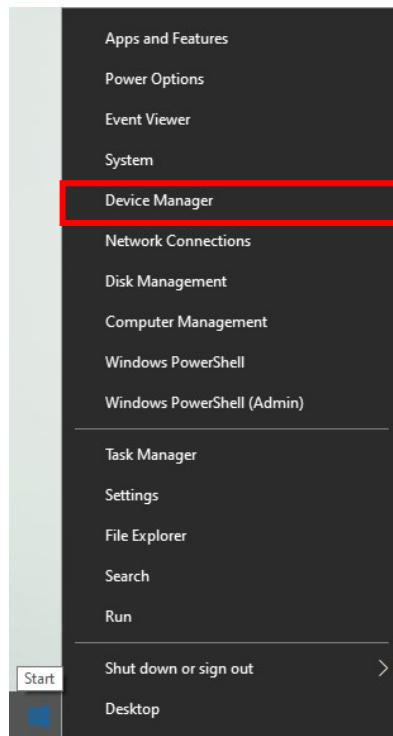
•Installing USB driver

For installing the software from the download file folder, its procedure will be displayed on the screen.

**Connect the PC to the main unit with the USB cable.**

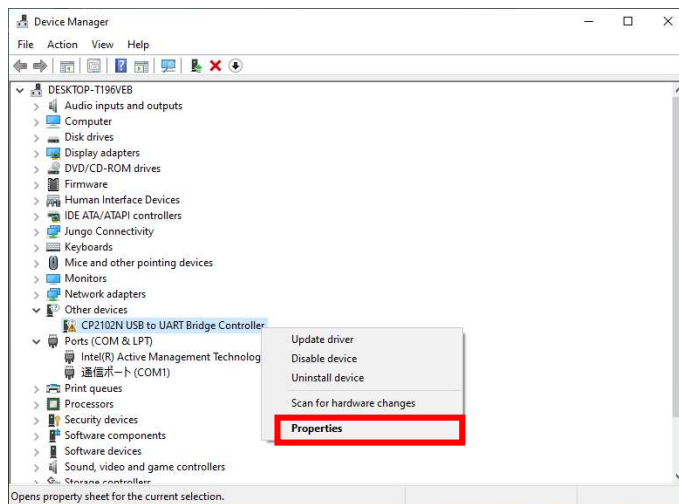
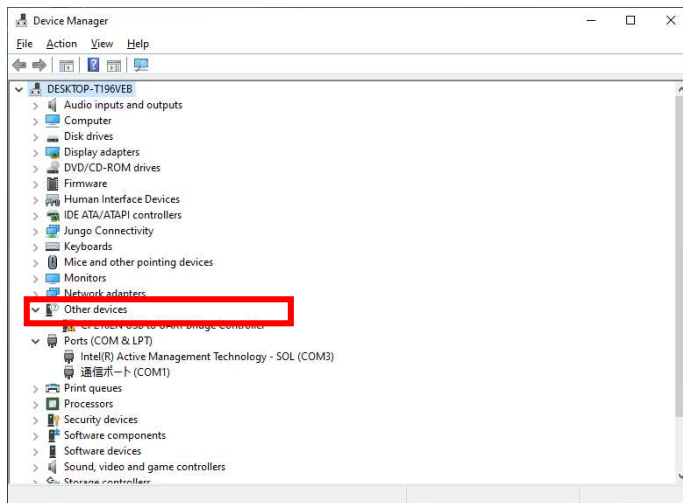
**Turn the power on to the main unit.** If a device driver is not installed to the pc, it will **be installed automatically**.

**If a device driver is not installed automatically,** install a device driver using the download file folder. start the **Device Manager** on the start menu.



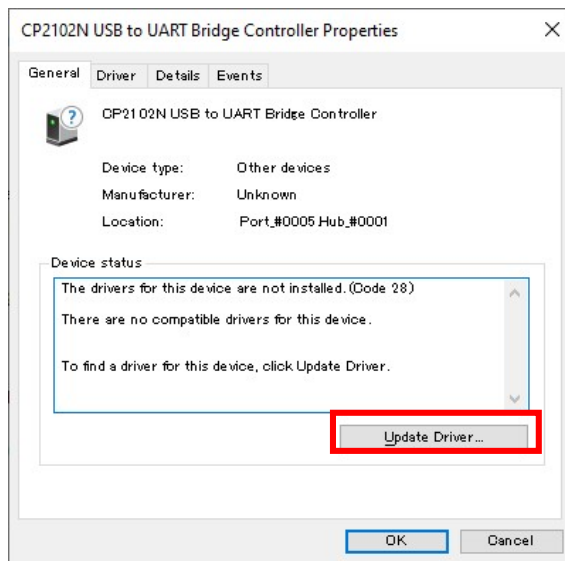
Find **CP2102 USB to UART Bridge Controller** from the **Other devices**.

Select **CP2102 USB to UART Bridge Controller** and click with the right mouse button, and then click the **Properties**.

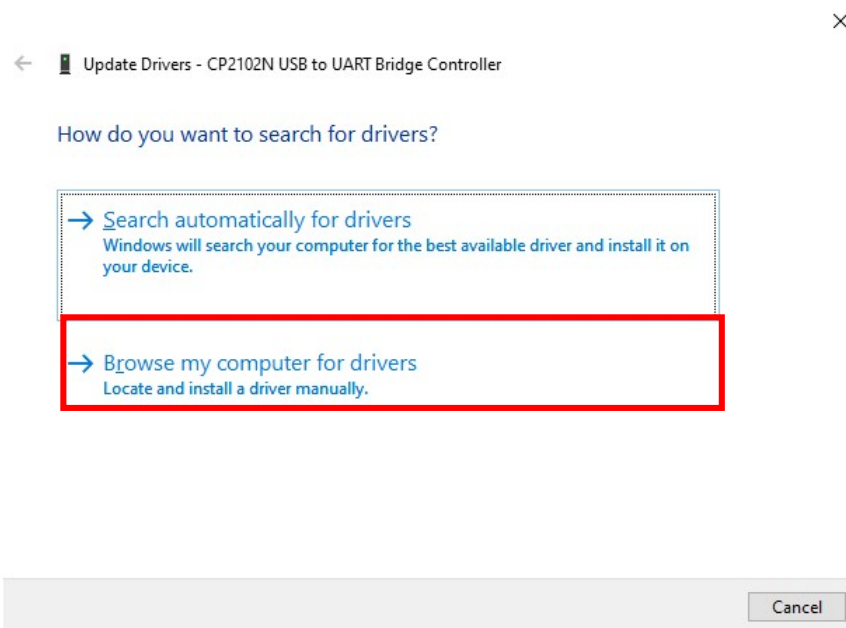




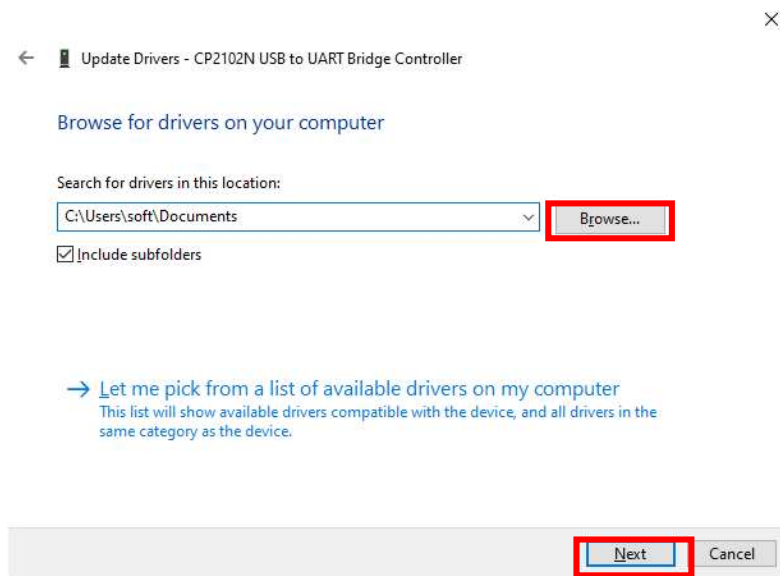
Click the **Update Driver**.



Click the **Browse my computer for drivers**.



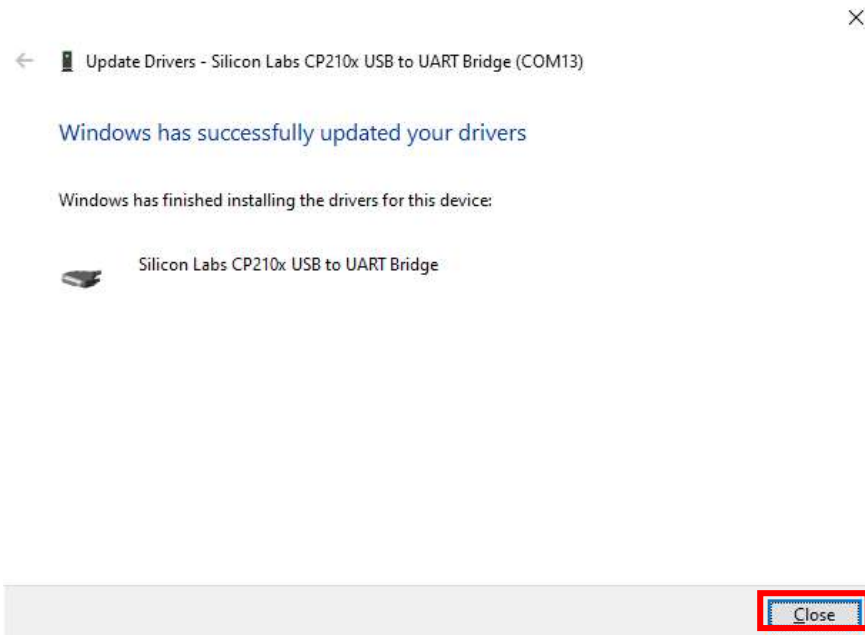
Click the **Browse** and select the download file folder.



Click the **Next** to start the driver installation.

When the installation is completed, the following screen will appear.

Click the **Close** to close the screen.



The screen will go back to the **Silicon Labs CP210x USB to UART Bridge(COMx) Property** screen. Click the **Close** to close the screen.

Now the USB connection will be ready.

### 3. Main Unit Setup

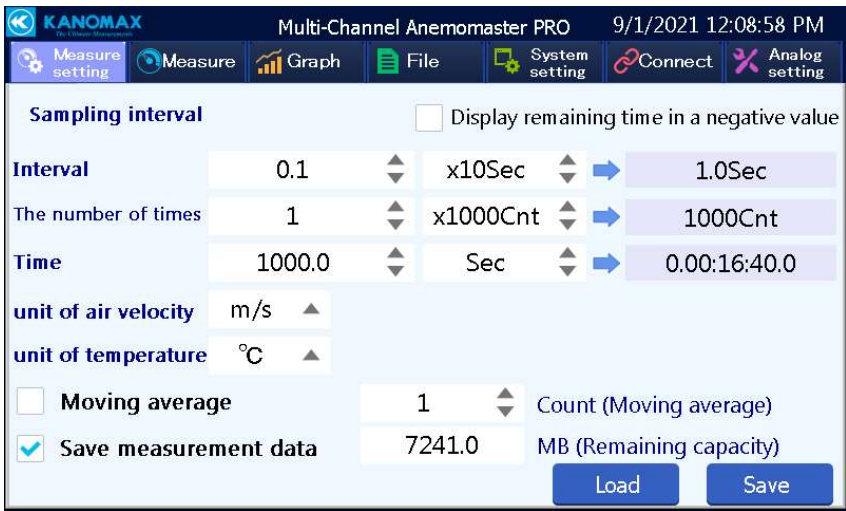
#### 1) Main Unit Communication Setting

Prior to using Software, communication setup in the main unit of Multi-Channel Anemomaster PRO is required.

Set the communication setup according to the following procedure.


**Step 1**

Turn the power on to the main unit of Multi-Channel Anemomaster PRO. After a short period of time, the measurement setup screen appears.



**Step 2**

Tap the **Sys. Setting** button to appear the system setting screen.



### Step 3

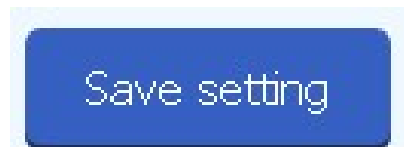
Select USB or Ethernet from the PC communication method on the System setting screen.

For Ethernet, enter the IP address of your PC.



### Step 4

Tap the **Save setting** button to save your setting. With this, the main unit communication is now complete.



## 2) Connecting the Hardware

- **LAN network connection (Ethernet):** Using a LAN cable, setup as below.

System setting -> Ethernet	Communication parameter
	Enter the IP address on the System setting screen on the main unit of Multi-Channel Anemomaster PRO to the system setting screen on this Software.

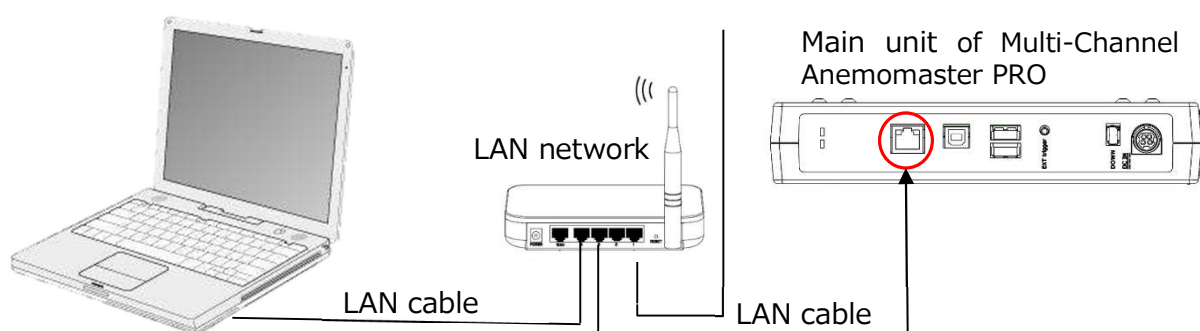


Figure 3-1

- **USB connection :** Using a USB cable, setup as below.


System setting -> USB	Communication parameter
	No parameter setting is required



Figure 3-2

## 4. How to Use the Software

### 4.1 Software startup (the main screen)

Click the icon in the start-menu  to start the Software.  
The main screen appears as shown in Figure 4-1.

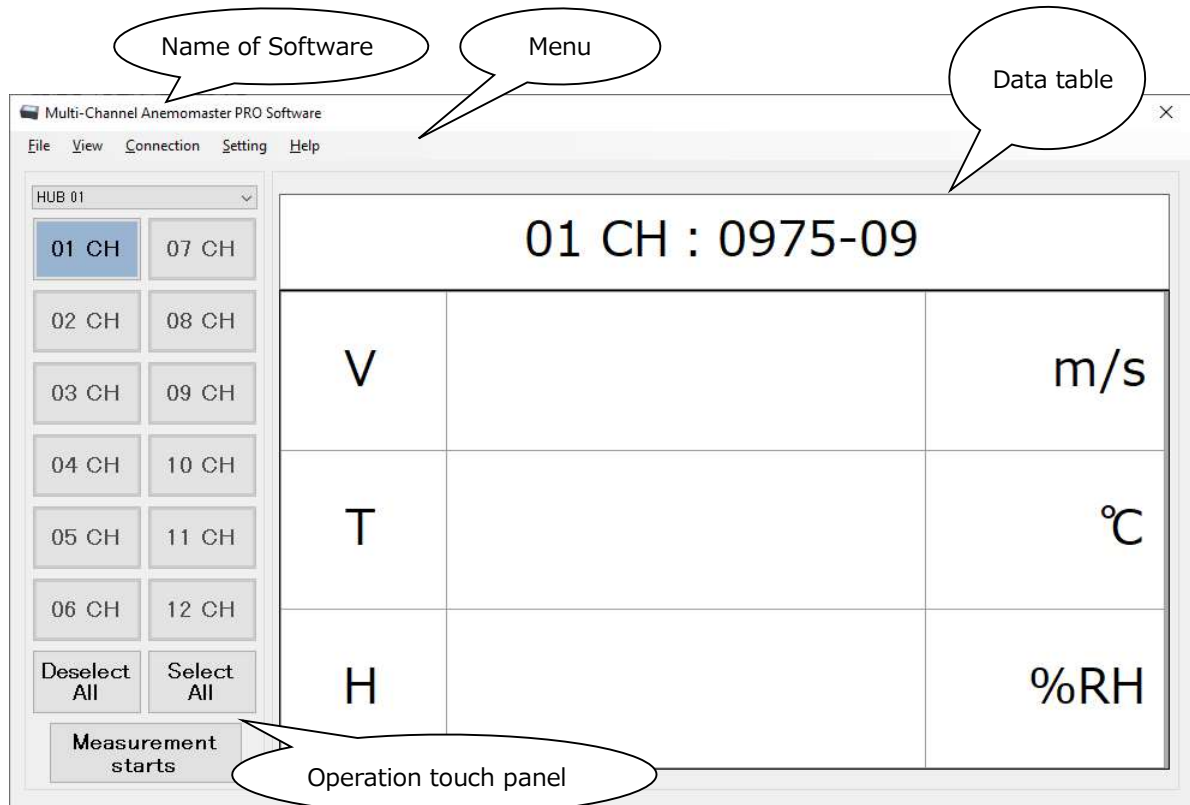


Figure 4-1 Main Screen

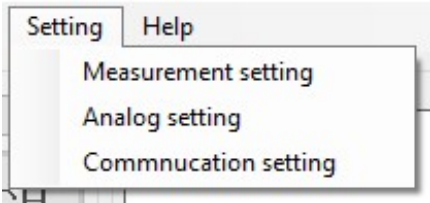
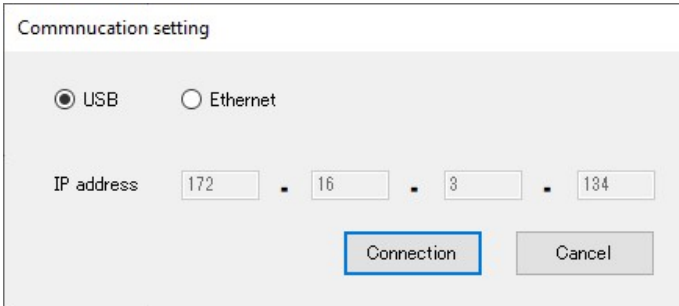
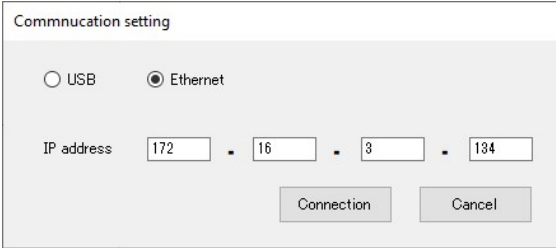
Item	Description
Operation touch panel	Select Hub to display and probe(s) Start/stop measurement
Data table	Displays measured value (default), data display format in graph or statistics

#### 4.2 Measurement procedure

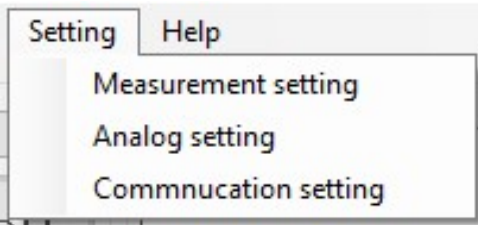
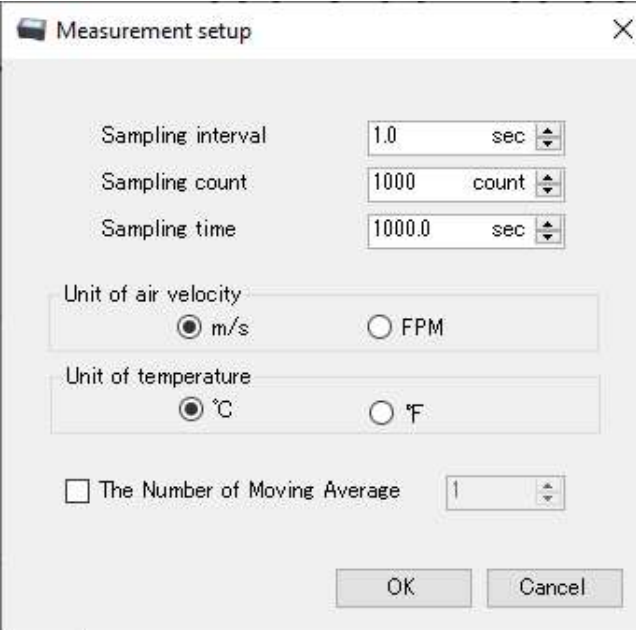
1) How to connect with the main unit of Multi-Channel Anemomaster PRO and configuration will be described in this step.

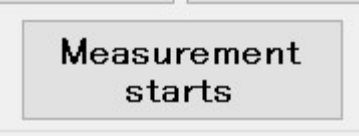
When starting the Software, the connection of the main unit of Multi-Channel Anemomaster PRO and some settings are necessary.

After starting up the Software, when the setup configuration of the main unit of Multi-Channel Anemomaster PRO, the hub unit and/or the analog unit have not been changed, or the power has not been turned off/on, skip Step 1 and go to Step 2.

STEP 1		STEP 2	
Click the <b>Setting</b> > the <b>Measurement setting</b> . 		Select the communication mode. 	
STEP 3		STEP 4	
Ethernet		USB	Connect all of the units and the probes and turn the power on. After that, click the connection button.
Enter the IP address of the main unit of the Multi-Channel Anemomaster PRO. 		No parameter setting is required.	

## 2) Start measurement

STEP 1	STEP 2
<p>Click the <b>Setting</b> &gt; the <b>Measurement setting</b>.</p> 	<p>Set up the measurement parameters</p> 

STEP 3
<p>Click the <b>Measurement starts</b> button on the main screen to start measurement.</p> 



## 5. File

Use this menu to clear data, open the existing data file, save a data file, and close the Software.

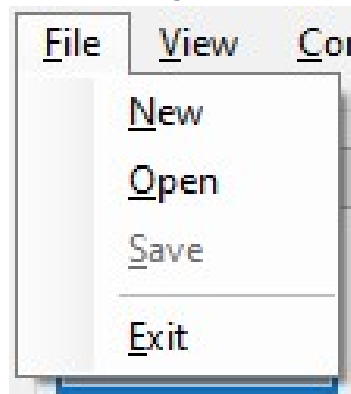


Figure 5-1 File Menu

### 5.1 New

Displayed measurement data can be deleted.

Click the **New** in the **File** menu.

### 5.2 Open

Open a data file (\*.CSV) to display measurement data in this step.

Click the **Open** button in the file menu to display Figure 5-2.

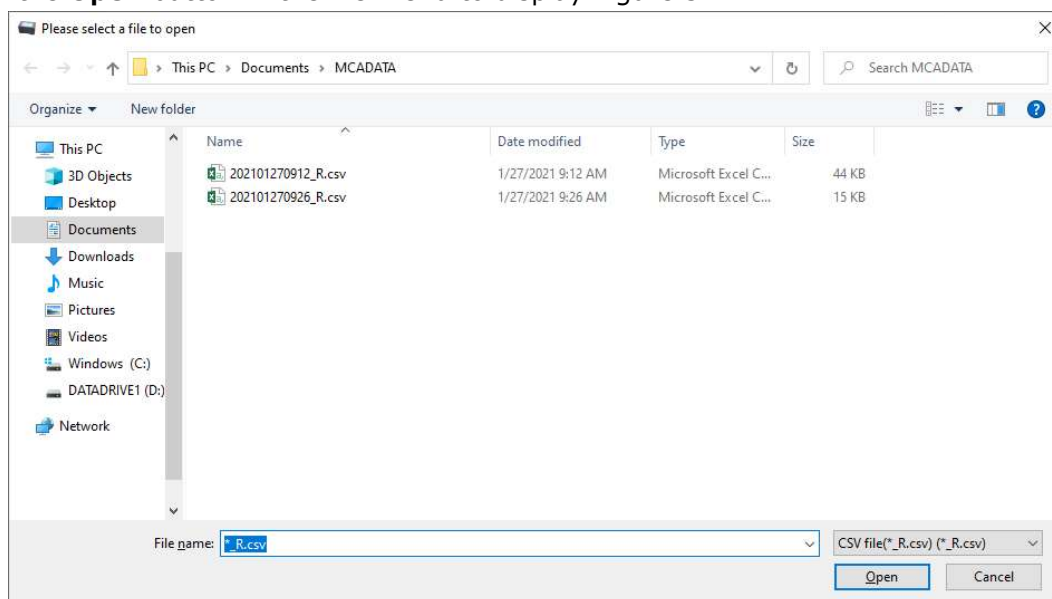
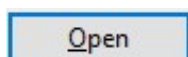
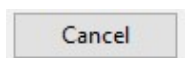


Figure 5-2 Open File Dialog Box



: Displays the data file.



: Cancels the data file saving.

### 5.3 Save

Measurement data and Measurement parameters are saved in CSV format (\*.csv).

Click the **Save** button in the file menu to display Figure 5-3.

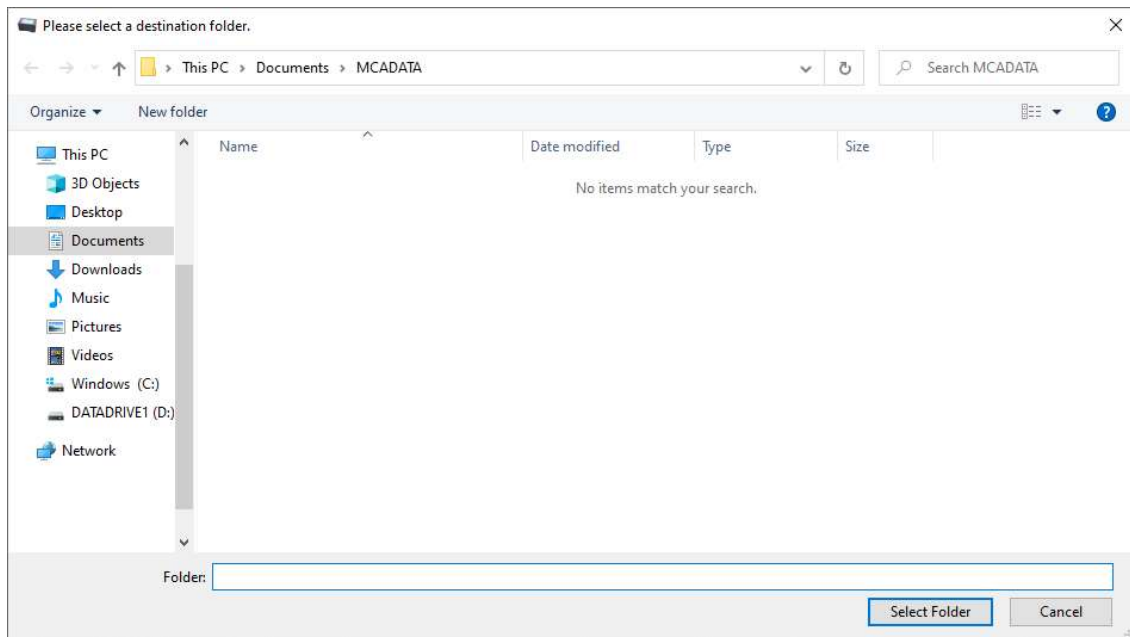


Figure 5-3 Saving Dialog Box

**Select Folder**

: Saves measurement data (\*.csv) in a selected folder.

**Cancel**

: Cancels the measurement data saving.

### 5.4 Exit

To exit the Software, click the **Exit** button in the file menu.

You are not allowed to use the **Exit** during measurement.

# 6. View

The display style of measurement data can be selected from the Number view, the Graph view and the Statistics views.

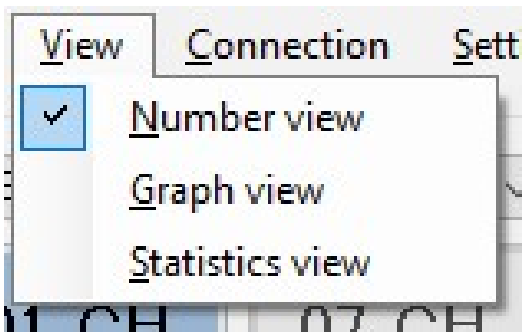


Figure 6-1 Display Menu

## 6.1 Number view

Click the **Number view** button in the display menu.

The data table on the main screen will change as shown in Figure 6-2.

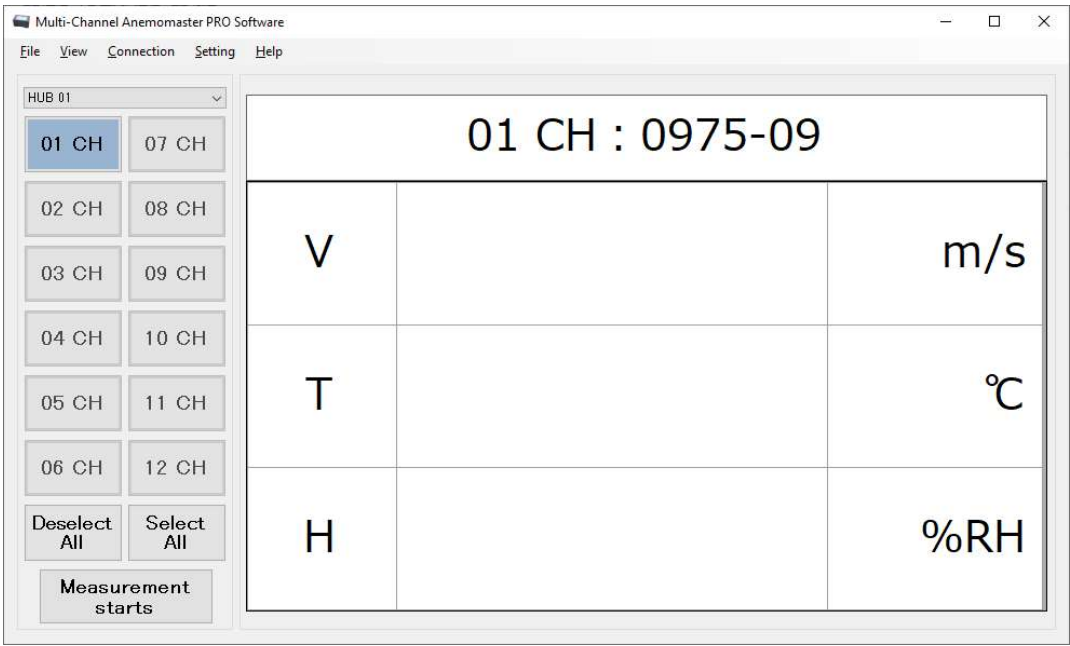


Figure 6-2 Main Screen in the Number View Display (for 1 CH is selected)

## 6.2 Graph view

Click the **Graph view** button in the display menu.

The data table on the main screen will change as shown in Figure 6-3.

When the Graph view is selected, click the **Range Setup** button at the bottom right of the data table to change the range of graph.

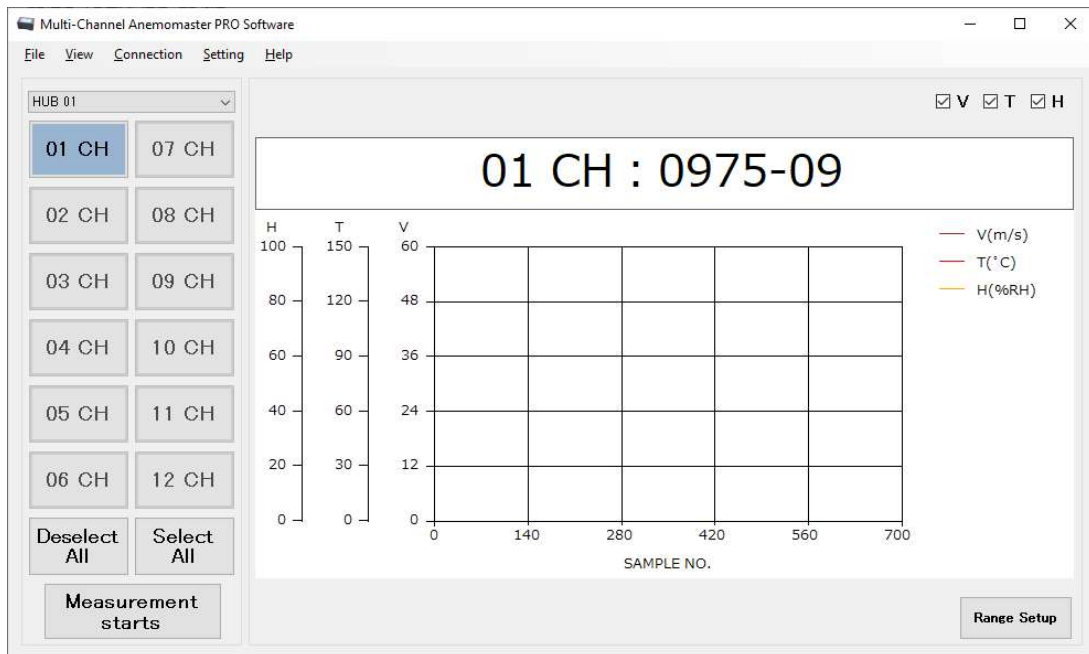


Figure 6-3 Main Screen in the Graph View Display (for 1 CH is selected)

## 6.3 Statistics view

Click the **Statistics view** button in the display menu.

The data table on the main screen will change as shown in Figure 6-4.

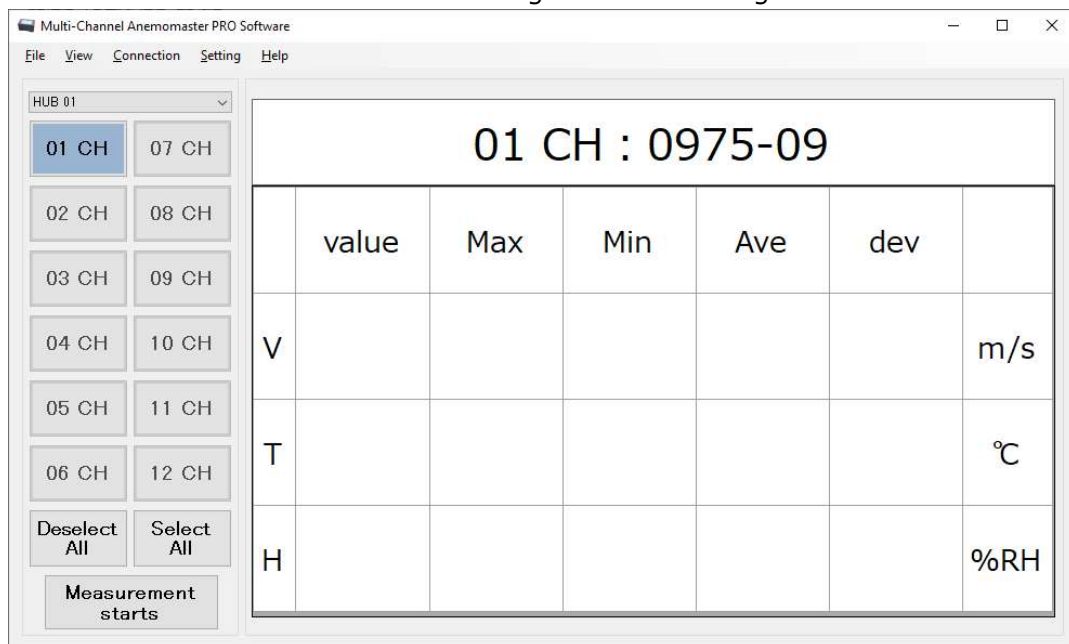


Figure 6-4 Main Screen in the Statistics View Display (for 1 CH is selected)

## 7. Connection State Check

The connection state of the probe connected with the hub unit can be checked.

- ※ If the status is grayed out as shown in Figure 7-2, the probe connection with the main unit of Multi-Channel Anemomaster PRO has not been completed.

Connect the probe with the main unit of Multi-Channel Anemomaster PRO according to **8.3 Communication Setting**.

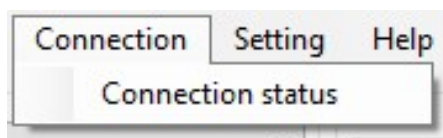


Figure 7-1 Connection Menu

### 7.1 Connection state

You can check the connection state of the connected probe by the hub unit basis.

Click the **Connection state** in the connection menu to display Figure 7-2.

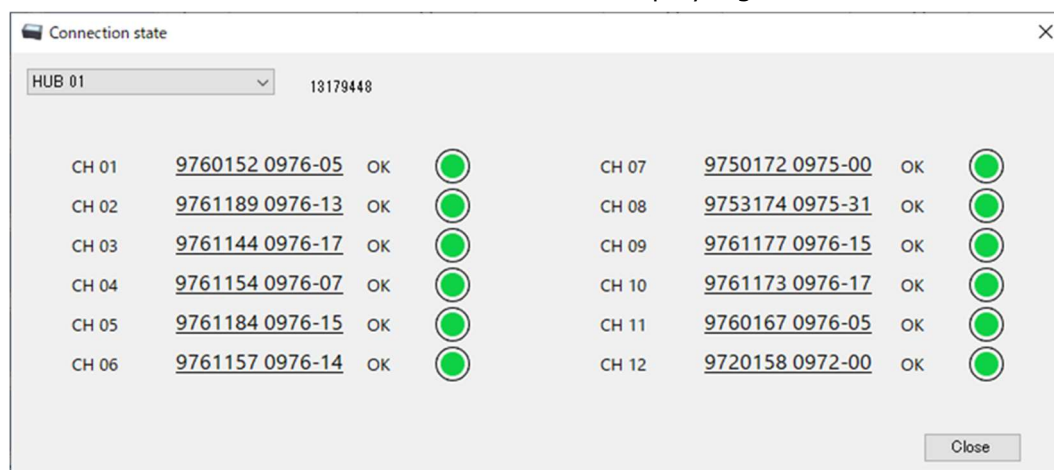
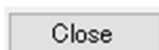


Figure 7-2 Connection State Dialog Box

#### 1) Parameter

Item	Description	Remarks
Hub unit to display	HUB01-12	Selectable
Probe information	Connected CH, serial No., model No, connection state	-

#### 2) Button description



: Closes the current screen.

## 7.2 Connection state details

In this screen, the connection state details of connected probe are displayed.

7.1 Click the probe number displayed in the dialog box of the connection state to display Figure 7-3.

Figure 7-3 shows a dialog box titled "Connection state details". At the top, there are two dropdown menus: "HUB 01" and "CH01". Below these, there are four rows of information, each with a label and a value:

Label	Value
Measurement object	V
Probe No.	0976-05
Probe S/N	9760152
Last calibration date	2022/02/01

A "Close" button is located at the bottom right of the dialog box.

Figure 7-3 Connection State Details Dialog Box

### 1) Parameter

Item	Description	Remarks
Hub unit to display	HUB01-12	Selectable
Display CH	CH01-12	Selectable
Measurement item	V/VT/VTH	-
Probe No.	Model No. of the connected probe	-
S/N of probe	Serial No. of the connected probe	-
Last calibration date	The latest calibration date of the connected probe	-

### 2) Button description



: Closes the current screen.

## 8. Setting

How to set measurement parameters, analog unit output values, and connection with the main unit of Multi-Channel Anemomaster PRO are described in this step.

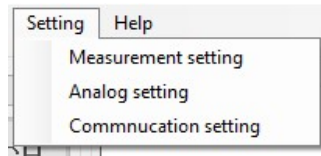
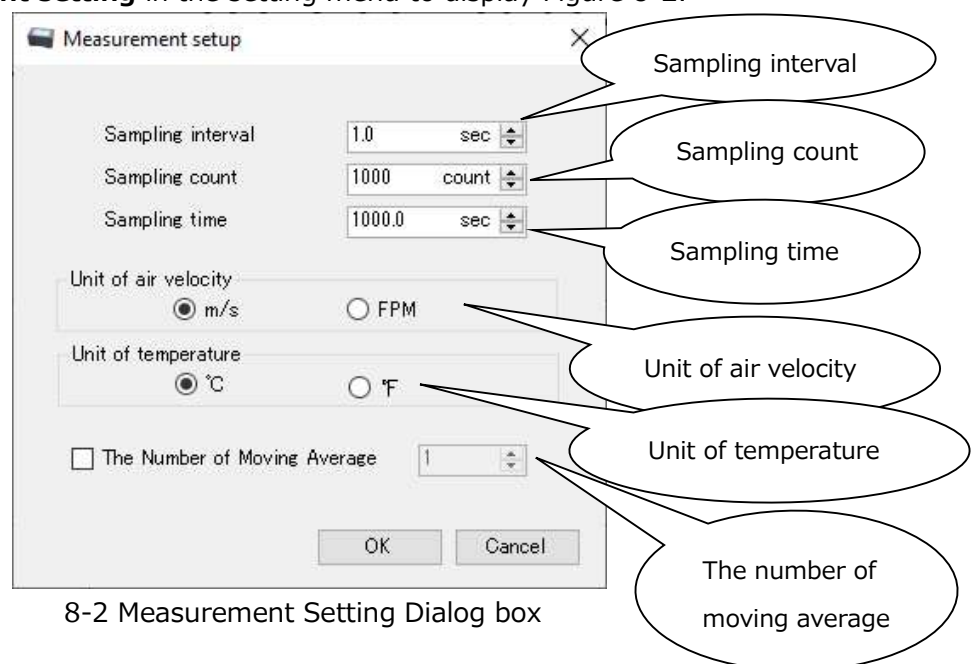


Figure 8-1 Setting Menu

### 8.1 Measurement setting

Set the measurement parameter.

Click the **Measurement setting** in the setting menu to display Figure 8-2.

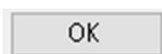


8-2 Measurement Setting Dialog box

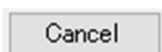
#### 1) Parameter

Item	Description	Remarks
Sampling interval	0.1 to 6553.5 (second)	Input-enabled item
Sampling count	1 to 65535 (count)	Input-enabled item
Sampling time	0.1 to 429483622.5 (second)	Input-enabled item
Unit of air velocity	[m/s], [FPM]	Selectable
Unit of temperature	[°C], [°F]	Selectable
The number of moving average	1 to 99 (the number of times)	Input-enable if selecting by check

#### 2) Button description



: Saves parameters and closes the current screen.



: Cancels parameter saving and closes the current screen.

## 8.2 Analog setting

Set the analog unit output values.

Click the **Analog setting** in the setting menu to display Figure 8-3.

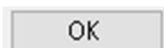
Analog output channel setup		Input channel setup			
<input type="checkbox"/> 01 CH	V	HUB 01	CH 01	V	0~20m/s
<input type="checkbox"/> 02 CH	V	HUB 01	CH 01	T	0~100°C
<input type="checkbox"/> 03 CH	V	HUB 01	CH 01	V	0~20m/s
<input type="checkbox"/> 04 CH	V	HUB 01	CH 01	V	0~20m/s
<input type="checkbox"/> 05 CH	V	HUB 01	CH 01	V	0~20m/s
<input type="checkbox"/> 06 CH	V	HUB 01	CH 01	V	0~20m/s
<input type="checkbox"/> 07 CH	V	HUB 01	CH 01	V	0~20m/s
<input type="checkbox"/> 08 CH	V	HUB 01	CH 01	V	0~20m/s
<input type="checkbox"/> 09 CH	V	HUB 01	CH 01	V	0~20m/s
<input type="checkbox"/> 10 CH	V	HUB 01	CH 01	V	0~20m/s
<input type="checkbox"/> 11 CH	V	HUB 01	CH 01	V	0~20m/s
<input type="checkbox"/> 12 CH	V	HUB 01	CH 01	V	0~20m/s

Figure 8-3 Analog Setting Dialog Box

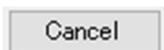
### 1) Parameter

Item	Description	Remarks
Analog unit to display	ANALOG01-12	Selectable
Analog output setting mode	I (Current value)/V (Voltage value)	Input-enable if selecting by check
Analog output value	Hub unit: 01 to 12	Selectable
	Channel: 01 to 12	Selectable
	Measurement item: V/T/H	Selectable
	Output range setting	Selectable

### 2) Button description



: Saves parameters and closes the current screen.



: Cancels parameter savings and closes the current screen.



### 8.3 Communication setting

Set the connection method between SOFTWARE and the main unit of Multi-Channel Anemomaster PRO.

Click the **Connection** in the setting menu to display Figure 8-4.

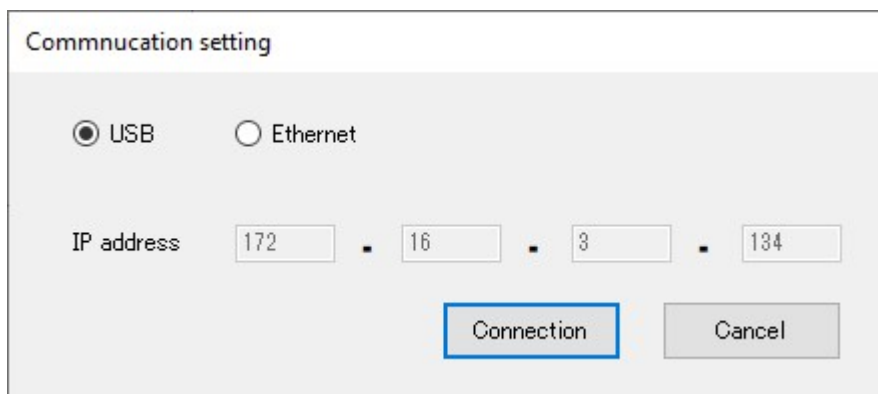
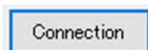


Figure 8-4 Communication Setting Dialog Box

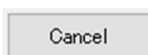
#### 1) Parameter

Item	Description	Remarks
Communication method	USB/Ethernet	Selectable
IP address	0.0.0.0 to 255.255.255.255	Input-enable only when Ethernet is selected

#### 2) Button description



: Closes the current screen and the connection with the main unit of Multi-Channel Anemomaster PRO will be complete. Once the connection is complete, parameters are saved.



: Cancels parameter saving and closes the current screen.

## 9. Help

Use this menu to check the name of Software and the version information.



Figure 9-1 Help Menu

### 9.1 Version information

The name of Software and the version information are displayed in this screen.

Click the **About version** in the help menu to display Figure 9-2.



Figure 9-2 Version Information Dialog Box

#### 1) Button description



: Closes the current screen.

## 10. Contact Information

---



If you have any questions or inquiries about this product, please check the contact information below, as it depends on the region where you purchased the product.

□ U.S.A.

KANOMAX USA, INC.

219 US Hwy 206, Andover, New Jersey 07821 U.S.A.

TEL: (800)-247-8887 / (973)-786-6386

FAX: (973)-786-7586

URL: <http://www.kanomax-usa.com/>

E-Mail: [info@kanomax-usa.com](mailto:info@kanomax-usa.com)

□ JAPAN

KANOMAX JAPAN INC.

2-1 Shimizu, Suita City, Osaka 565-0805, Japan

TEL: 81-6-6877-0183

FAX: 81-6-6879-5570

URL: <http://www.kanomax.co.jp>

E-Mail: [sales@kanomax.co.jp](mailto:sales@kanomax.co.jp)

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