



Datasheet

Remote handle

RH-01

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REMOTE HANDLE

Microflown sensor control on the palm of your hand

Application-configurable remote control system.

The Microflown Technologies Remote handle is a very useful accessory compatible with all VELO applications. Velo is Microflowns' own dedicated software platform.

The remote handle provides information regarding the recording progress, channel overload and PC-handle connectivity. Furthermore, the handle allows to trigger the start, stop and even deletion of a measurement. Moreover, the handle is programmable per Velo application. This feature allows to assign a custom function to any and all built-in handle buttons.

I. SENSOR COMPATIBILITY

The Remote handle is compatible with all regular size probes, meaning:

- PU regular
- USP regular
- Scanning probe

There are special adaptors available for:

- PU mini
- PU match

II. CHARACTERISTICS TABLE

Parameter	Value	Unit/ note
Dimensions (W x D x H)	300x 40 x 30	mm
Weight	280	g
Connectivity		
Tx frequency	2.4	GHz
Connection range	10	m
Electrical characteristics		
Battery type	2 x AAA	1,5 V
Operating time:	14	h

III. INSTALLING THE REMOTE HANDLE

Configuration and setup of Microflown Technologies' remote handle is carried out automatically after the device is connected for the first time with the PC. Please note, that the automatic setup can only be completed, if the PC is connected to the internet.

Once the device is correctly installed, a new hardware item will appear under the "Ports (COM& LPT)" section. Labeled as USB serial Port (COMN):

NOTE: the number assigned to the Microflown Technologies' Remote Handle depends on the PC and the already installed devices.

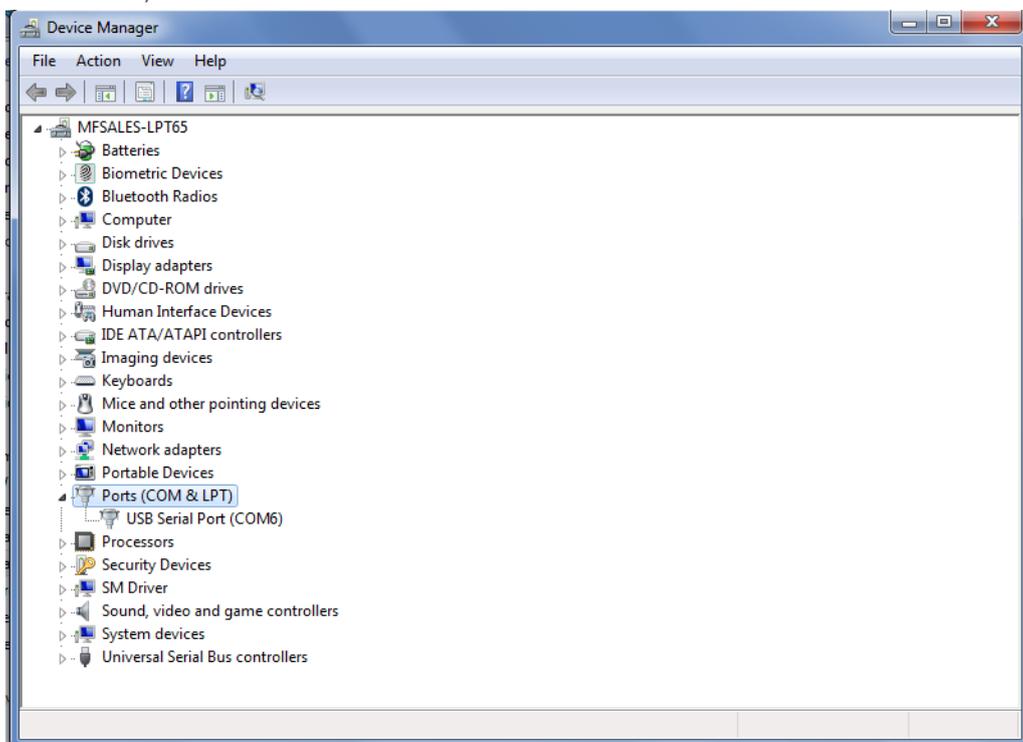


Figure 1. Installed and recognized Microflown Technologies Remote Handle

If the installation is not triggered automatically, or if there is no internet connection available, the remote handles' installation process can be started manually. The Microflown Technologies Remote Handle installer is included in the VELO platform installer.

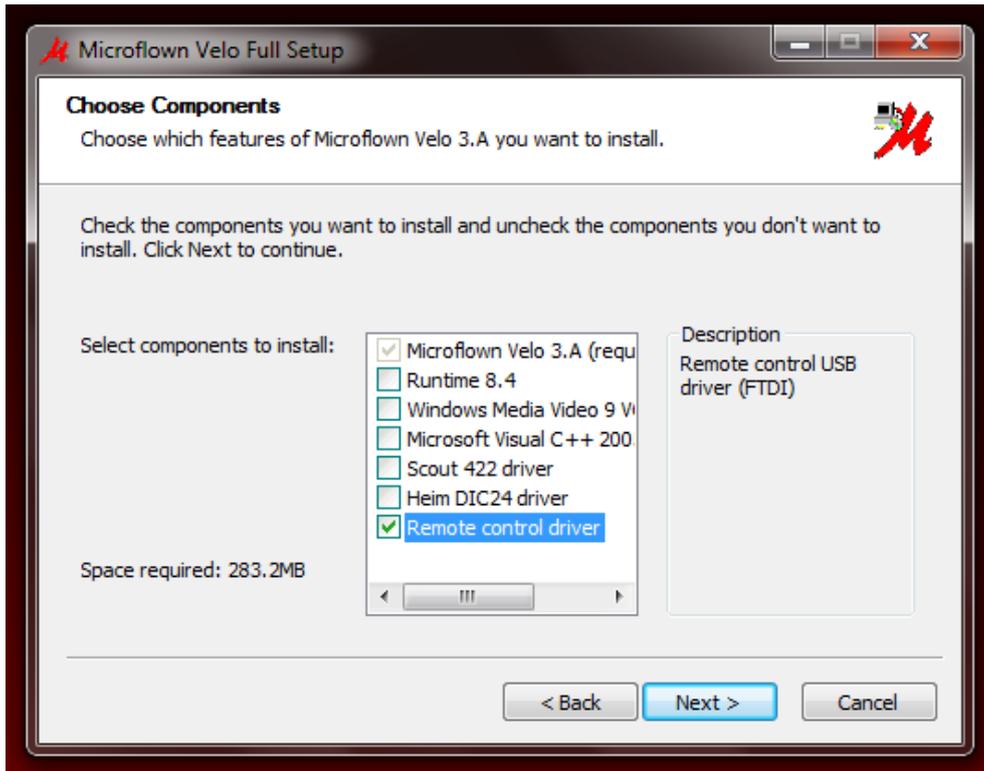
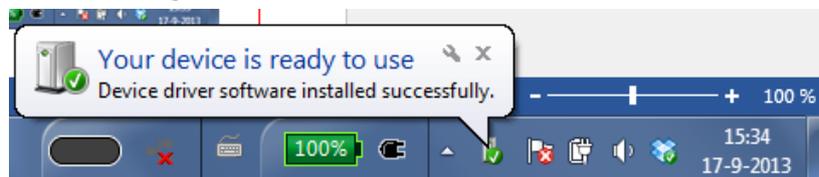


Figure 2. Manual installation from Microflow Technologies software

Once the installation process is finished, the device should be ready for work. If the installation process was completed without any issues, the handle should be recognized and labeled as in Figure 3 in the device manager:



After the installation, follow the instructions from the Microflow main software modules to connect and operate it.

Detailed instructions on how to use and configure the handle for a specific application, can be found in the software manual dedicated for this application.

IV. REMOTE HANDLE OPERATION

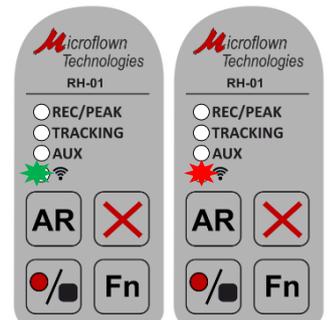
STANDBY MODE

After 5 minutes of not being used, the Microflow Technologies Remote Handle will shut down to save power and extend the batteries life. Press any button to re-start the remote control.

CONNECTED MODE

The last LED, , indicates the status of the connection between PC and Microflow Technologies Remote Handle.

- If the connection is good and the Microflow Technologies Remote Handle is in the range, the LED will flash green.
- When the handle is out of range the LED will flash red



LED AND BUTTON FUNCTIONALITY

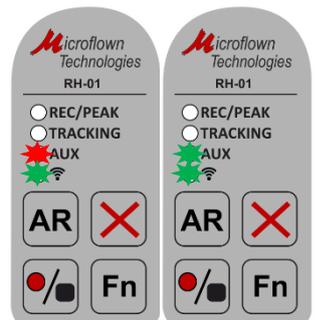


START/STOP BUTTON

USAGE:

First click: start a measurement

1. Aux led will flash red: starting measurement
2. Rec/peak will flash green: recording

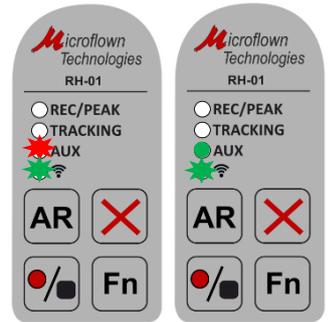


While recording: If REC/Peak LED flashes red, the probe is overloading.



Second click: stop the measurement

1. Aux led will flash red: storing measurement
2. Rec/peak will light green: ready for next measurement



AR BUTTON

Currently not in use

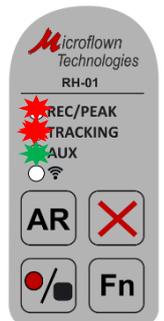
X BUTTON

USAGE:

Delete measurement

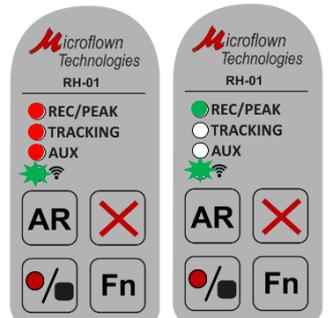
First click: The Microflow Technologies Remote Handle is waiting for confirmation to delete the last taken measurement

1. All LEDs flash red except the connection led.



Second click: delete confirmation

2. All LEDs steady red except the connection LED
3. Rec/peak steady green: ready to continue



FN BUTTON

Currently not in use

TRIGGER BUTTON

This button is allocated in the back of the Microflow Technologies Remote Handle to be operated with the index finger.

Its functionality changes from done software package or the other

1. Scan & Paint: configurable via software, if enabled:

Keep Trigger clicked and the software will understand that the user is scanning and the recorded data will be usable.

While the button is not pressed, the software will automatically classify the recorded data as not to be used and include it in the exclusion list.

NOTE: the data can always manually be selected/unselected in the post processing stage from the exclusion list.

2. Scan & Paint 3D: if enabled: keep trigger button to record data

While pressing the button, the tracking LED will shine green.

When the trigger is not pressed the tracking led will be off.



V. BATTERY STATUS

The battery status is displayed in the Velo platform compatible software, in the settings stab.

The battery voltage for a proper usage should be above 2 V.



Figure 3. Battery voltage information on software platform

VI. WARRANTY POLICY, REPAIRS AND REPLACEMENTS

WARRANTY AND REPLACEMENT OR SUBSTITUTION

During the first two years (24 months) the seller offers a warranty on all its products, except for trading items and third party manufactured items. The seller warrants that all products will be free from defects in materials and workmanship for this period of two years. During this two year period, the seller will repair or replace defect products free of charge. Products damaged by accident, abuse, misuse, natural disaster or by any unauthorized disassembly, repair or modification are not covered by this warranty. The incurred transportation costs of returning the products to seller will be borne by the buyer. The logistical cost for returning the products back to the buyer will be borne by the seller. Several products come with a “VOID if seal is broken” sticker, the warranty is void at all times when this sticker is broken.

GRACE PERIOD (YEAR 3 AND 4)

During the third and fourth year the seller offers a grace period. In the grace period the products purchased at an earlier date can be replaced by completely new state of the art products of the same scope of the original purchase. This applies only for the products known as standard probes and signal conditioners. In the first year of the grace period, (year 3) customers have an option to replace their products for 25 % of the actual ex works end-user price. The full freight and packaging charges apply.

In the second year of the grace period, (year4) customers have an option to replace their products for 50 % of the actual ex works end-user price. The full freight and packaging charges apply.

The new products are accompanied by a new warranty. Both the two years warranty and grace period become applicable again from the date of invoice.

REPAIRS OUTSIDE WARRANTY POLICY

Replaced/repared parts come with a six month warranty under the same conditions as the two year warranty.