

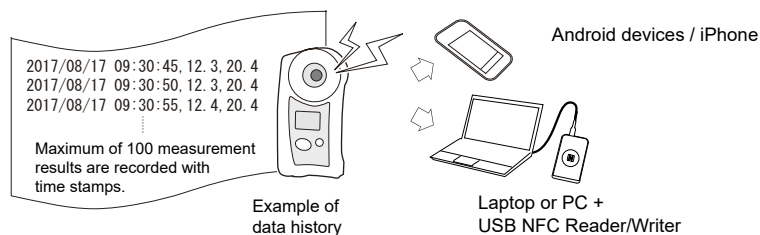
About Data Transmission Function

This instrument stores maximum number of 100 measurement data. This instrument is equipped with NFC (Near Field Communication) technology. Data history can be accessed by bringing PAL-NFC to any Android devices, iPhone or PC-linked USB NFC Reader/Writer* (in conformance to PC/SC specification).

* Operation tested with SONY USB NFC Reader PaSoRi RC-S380.

【Caution】

Data history exceeding 100 will overwrite old activity with new data, replacing the oldest recorded information first.



Preparation

(1) Software installation

Install a software to readout the NFC tag ahead of time.

Android devices / iPhone

Applicable Application Software (app) "NFC Reader"

* If an NFC tag reader app is already installed on the Android devices or iPhone, this app can be used.

Laptop or PC + USB NFC Reader/Writer

Data history can be exported to Microsoft[®] Excel[®] (for Windows[®]) using a PAL NFC software "ATAGO Logger (NFC)".

* The app "ATAGO Logger (NFC)" is available for download : <http://www.atago.net/ur/>

2019/01/17 09:30:45	LLL	20.4
2019/01/17 09:31:50	8.31	20.5
2019/01/17 09:32:12	8.25	21.0
2019/01/17 09:34:26	AAA	21.2
2019/01/17 09:43:07	c6.86	22.3
2019/01/17 09:43:18	c4.01	22.5
2019/01/17 09:45:39	5.89	25.1
2019/01/17 09:46:07	5.92	HHH

Example of data history read out

LLL : Lower limit error.

HHH : Upper limit error.

AAA : Calibration error.

EEE : Error.

c6.86 : pH 6.86 Calibration completes

c4.01 : pH 4.01 Calibration completes

c9.18 : pH 9.18 Calibration completes

c7.00 : pH 7.00 Calibration completes

c10.01 : pH 10.01 Calibration completes

A0135897
667937E581

Back side of the body Instrument's serial number

UniqueID = Last 10 digits of NFC chip number (NFC's serial number)

You can use the NFC's serial number to identify which instrument the readings correspond to.

You can check the NFC chip number (serial number) by using an app that can read the serial number.

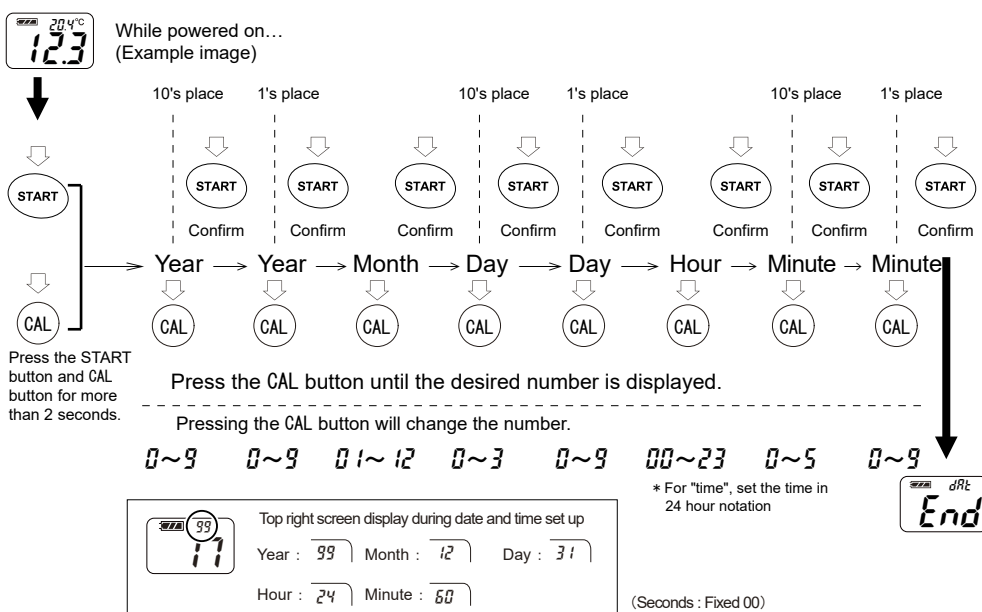
Note: Not all NFC apps capture the NFC's serial number

Suggested app: "NFC Tools"

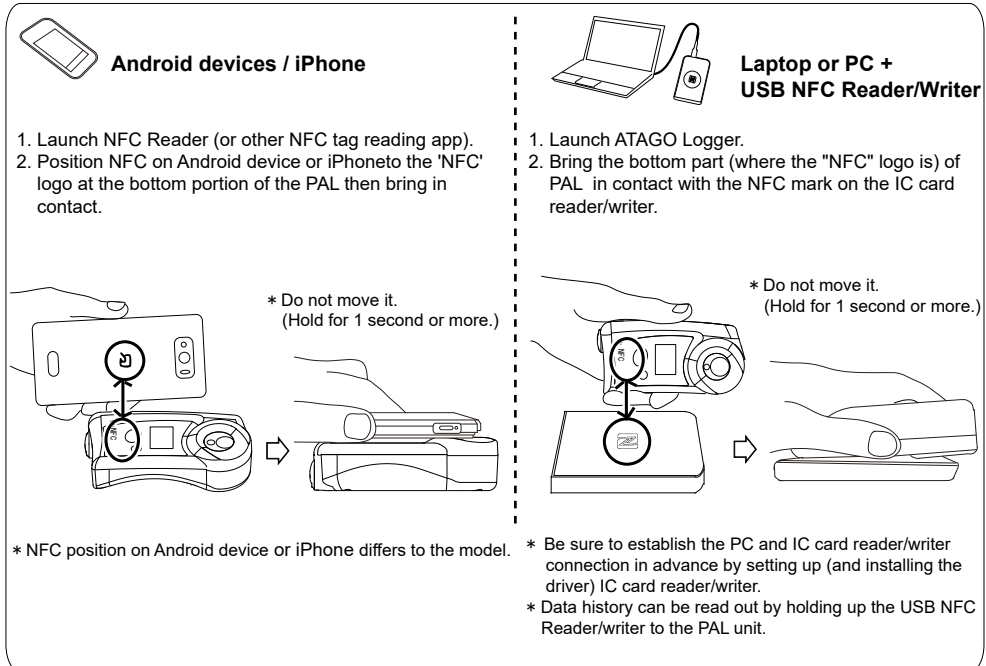
(2) Date and time setting

Set the date and time (year [the last two digits of the western calendar], month, date, time and minute) prior to data history readout.

【memo】 Reset the date and time when batteries are removed for 24hours or more.



Data history readout



All recorded data stored in this instrument are read out.

* If data history is not read out, bring both in contact and move the one that is over the other device in a forward and back or left and right in a small motion.

【Caution】 Bring PAL and Android devices, PAL and iPhone or PAL and USB NFC Reader/writer as close to each other as possible. (Position it so that the distance between both devices are 5mm or less.)

【memo】 Data history can be read out while PAL is powered off.

【memo】 Data history readout will not delete the stored data history.

Delete data history

All data history will be deleted from this instrument.

【Caution】 Deleted data history can not be restored.

【memo】 A data history can not be selected.

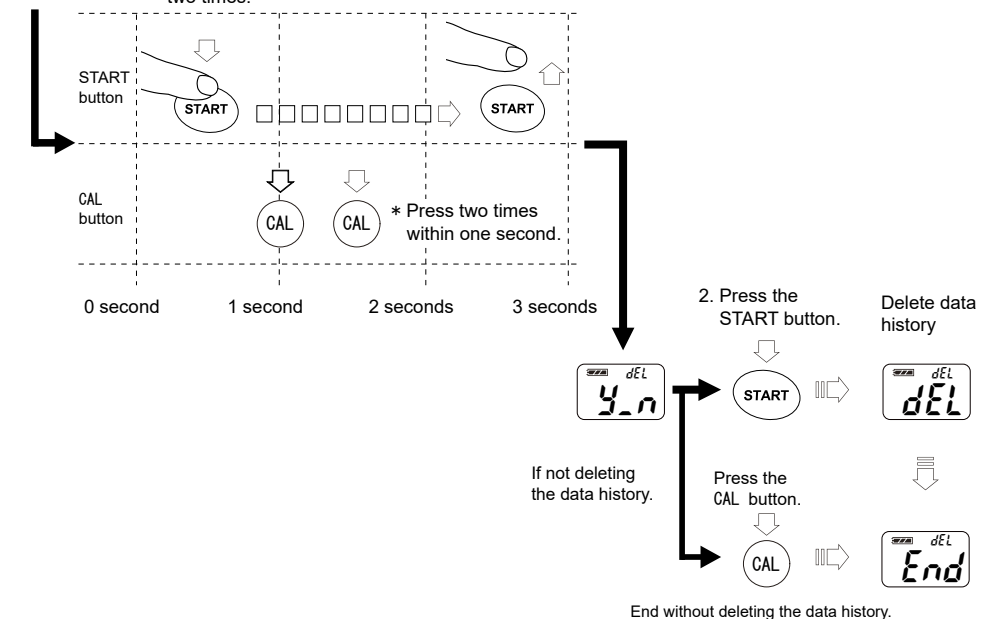
While powered on...

(Example image)

1. Quickly (3 seconds or less) do the following button operation.

(a) While pressing the START button, press the CAL button two times.

(b) Quickly release the START button.

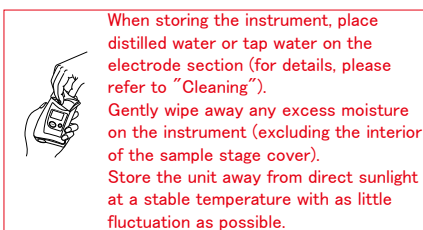
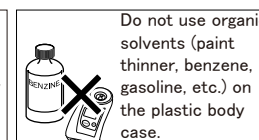
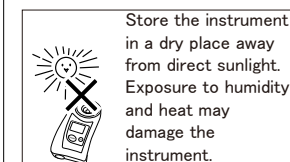


Solvents Harmful to Body Case

Aqua regia/chromic acid/nitric acid/hydrofluoric acid/sulfuric acid/caustic soda/potassium hydroxide/ethyl acetoacetate/acetone/ethylene oxide/ethylene chlorohydrin/epichlorohydrin/ethyl chloride/methyl chloride/chlorinated solvents/chloroacetone/chlorotoluene/chloroform/acetic acid/ amyl acetate/isopropyl acetate/ethyl acetate/butyl acetate/methyl acetate/diisopropyl ketone/ cyclohexanone (anone)/dichlorobenzene/dimethylformamide (DMF)/phenol/tetrahydrofuran (THF)/ tetrachloroethane/triethanolamine/trichloroethylene/toluene (toluol)/ethylene dichloride/ dichloromethane/nitrobenzene/perchloroethylene/fluorobenzene/benzene (benzol)/methyl methacrylate/ methyl alcohol/methyl ethyl ketone/monochlorobenzene/liquid chlorine/sodium peroxide/bromine

Solvents that are harmful to the plastic body case include but not limited to the above substances.

Storage and Maintenance



Repair and Warranty

The instrument is warranted for one year from the date of purchase.

This warranty is void if the instrument shows evidence of the following. Send the included batteries as well if they are still in use.

• Having been disassembled by unauthorized personnel

• Damages to the electrode section

• Water damage or having been dropped

• Having been misused and/or operated outside the environmental specifications

• Leakage from batteries other than those included with the unit

Repair services are available for a fee after the warranty expires.

Contact an ATAGO authorized service center for service and support.

Please have the serial number information ready when contacting a service center.

Specifications

Measurement range	pH0.00 to 14.0	Temperature 10 to 40 °C
Resolution	pH0.01	Temperature 0.1 °C
Accuracy	pH±0.10	Temperature ±1 °C
Automatic temperature compensation range	10 to 40°C	
Ambient temperature range	10 to 40°C	
Sample volume	At least 0.6mL	
Calibration	Calibrate at 3 points (6.86, 4.01, 9.18) (7.00, 4.01, 10.01)	
Backlight	The backlight stays on for 30 seconds after any button is pressed.	
Maximum number of data history	100	
Output	NFC Forum Type 4 Tag ISO/IEC 14443 Type A Output category : Date Time, pH, Temp [degC] (e.g.) 2019/01/17 09:30:45, 3.71, 21.3	
Measurement time	Approx. 3 seconds	
Power supply	Size AAA alkaline battery × 2	
International Protection class	IP65 Water resistant	
Dimensions and weight	55(W) × 31(D) × 109(H)mm, 100g (main unit only)	

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