HORIBA LAQUA DAS20 Data Acquisition Software Instruction Sheet

This instruction sheet describes the procedures for the installation and operation of the DAS20 data acquisition software, which can be used to load and export live and saved data from any of the following meter models to PC:

- LAQUA PH220, EC220, DO220, PC220, PD220 handheld meters
- LAQUA PH1500, EC1500, PC1500 bench meters
- LAQUA PH2000, EC2000, ION2000, PC2000 bench meters

A. Installation

The installation of this software requires the administrative right of the PC.

1. Double click the **DAS20_E.exe** file inside the DAS20 folder. After loading, the window below will appear. Click **Next**.

2	Welcome to the InstallShield Wizard for DAS20
H	The InstallShield(R) Wizard will install DAS20 on your compute To continue, click Next.
	WARNING: This program is protected by copyright law and international treaties.
	< Back Next > Cancel

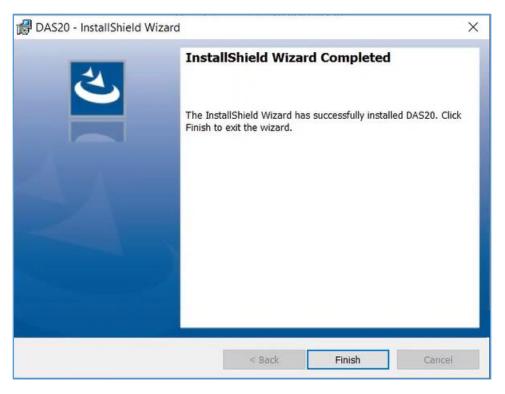
2. Read the license agreement. If agree, select I accept the terms in the license agreement and click Next.



3. Click Install.

Ready to Install the Program		4
The wizard is ready to begin inst	allation.	C
Click Install to begin the installati	on.	
If you want to review or change a the wizard.	any of your installation settings	s, click Back. Click Cancel to exit
stallShield —————————————————————		

4. Click **Finish** when installation is completed. DAS20 shortcut icon will appear in the desktop.



B. Settings

1. Connect the meter to PC using the USB cable. Double click the DAS20 shortcut icon in the desktop.



2. After the start-up screen is displayed, click **Settings** icon in the menu bar located at the top of the screen.

DAS20			- 0
Live Data	Saved Data Cal Data		
pH mV Conductivity TDS Salinity Resistivity DO (mg/L) DO (%)	Reert Reading Mode : pH Sample Interval 5 Seconds	Data Table	Surt Car Prive Export
Ready			Not connected to Meter

3. Select the **COM Port** in the dropdown menu to which the meter is connected. If no other COM port is being used, only one COM port will automatically appear. This COM port setting is not required for subsequent start-ups if the meter is connected to the same COM port.

T DAS20			×
Live Data Saved Data	Cal Data		HORIBA LAQUA Rev 1.00
Communication Settings	COM Port : Data Capture Interval :	Select the Meter COM Port 5 Seconds Range (3 Secs - 999 Secs)	Sare
Ready		Not connecte	ed to Meter

4. Set the **Data Capture Interval** (default setting: 5 seconds) then click the **Save** icon on the right side of the screen. The status in the bottom-right corner of the screen will change from **Not Connected** to **Connected** and the meter model will automatically appear.

DAS20			×
Live Data Saved Data	Cal Data		HORIEA LAQUA Rev 1.00
Communication Settings			
	COM Port :	COM3 ~	G
			Save
		Select the Meter COM Port	
	Г		
	Data Capture Interval :	5 Seconds	
		Range (3 Secs - 999 Secs)	
Ready		Connecte	d to PH1500 -

C. Live Data

1. Click the **Live Data** icon in the menu bar.

DAS20	Saved Data Cal Data Settings		
pH mV Conductivity TDS Salinity Resistivity DO (mg/L) DO (%)	Recert Reading Mode : pH Sample Interval 5 Seconds	Data Table	Start Ceor Price Price
Ready			Connected to PH1500 -

2. Select the parameter to be monitored on the left side of the screen then click the **Start** icon on the right side of the screen.

DAS20	Saved Data Cal Data Settings		
pH mV Conductivity TDS Salinity Resistivity DO (mg/L) DO (%)	Recert Reading Mode : pH Sample Interval 5 Seconds	Data Table	Clar Clar Pira Espot
Ready			Connected to PH1500 ·

 Measurement data will begin appearing in the screen following the data capture interval set in Settings. The data can be exported and printed by clicking the Export and Print icons, respectively. See Export and Print.

	Recent Reading	Data Table				
	Mode: pH	Date/Time	pH	mV	Temperature	Pause
ductivity	Sample Interval 5 Seconds	_	9.53 9.53	-149.0 -149.0	25.0 C (MAN) 25.0 C (MAN)	
5			9.53 9.53	-149.1 -149.2	25.0 C (MAN) 25.0 C (MAN)	Clear
nity			9.53	-149.2	25.0 C (MAN)	
istivity						P
(mg/L)						
(%)			_		_	
						Export
	9.53	pH				
	3.00	P				
	0F 0 °					
	25.0 cm	IAN)				

D. Saved Data

1. Click the **Saved Data** icon in the menu bar then the **Load** icon on the right side of the screen to retrieve all the measurement data stored in the meter.

100 DAS20			×
Live Data	red Data	Settings	
Data Table			Rev 1.00
Ready			Connected to PH1500

2. The data can be exported and printed by clicking the **Export** and **Print** icons, respectively. See **Export** and **Print**.

Live Data	Saved Data	Cal Data	Settings	⊭ LA(Ret	
Data Table					
cation No Date/Time	Data Value	Data Unit	Temperature		
	4.68	pH	25.0 C (MAN)		-
-	4.62	pН	25.0 C (MAN)		
-	4.66	pH	25.0 C (MAN)		11
	4.36	pH	25.0 C (MAN)		
-	4.37	pH	25.0 C (MAN)		0
-	4.33	pH	25.0 C (MAN)		
-	4.08	pH	25.0 C (MAN)		
-	3.25	pH	25.0 C (MAN)		
	2.90	pH	25.0 C (MAN)		
	2.35	pH	25.0 C (MAN)		1
	3.49	pH	25.0 C (MAN)		
-	176.1	R.mV	25.0 C (MAN)	k	
2000	4.59	pH	25.0 C (MAN)		
	174.2	mV	25.0 C (MAN)		
-	152.5	mV	25.0 C (MAN)		
-	270.0	mV	25.0 C (MAN)		
	9.17	pH	25.0 C (MAN)		
-	6.85	pH	25.0 C (MAN)		
	12.44	pH	25.0 C (MAN)		

E. Cal Data

1. Click **Cal Data** icon in the menu bar to display the current calibration data.

DAS20	Saved Data		
pH mV Conductivity TDS Salinity Resistivity DO (mg/L) DO (%)	Pecert Reading Mode : pH Sample Interval 5 Seconds -	Data Table	Surt Corr Print Esport
Ready			Connected to PH1500

2. Select the other available parameters on the left side of the screen, to view their respective calibration data. The data can be exported and printed by clicking the **Export** and **Print** icons, respectively. See **Export** and **Print**.

Cal Cal Cal Cal Time:	T DAS20				×
Caductivity Cal Date Time ::	Live Data	Saved Data	(X) Settings		HORIBA LAQUA Rev 1.00
mV Offset : 0.5 mV Cal Temperature : 25.0 C (MAN) Electrode Status EXCELLENT	Conductivity Salinity	No.of Cal Points :	4.01 7.00		Proc.
Constant Platea		mV Offset : Cal Temperature :	0.5 mV 25.0 C (MAN)		
Ready Connected to PH1500	Ready			Connected	to PH1500 -

F. Export

1. Click the **Export** icon on the right of the screen to export data to the desired file format, either xlsx or csv, and save to PC. Enter comments (if any) then click the folder icon to browse and select the desired file storage location in PC.

1	Recent Reading				Data Table				Rev 1.00
,	Mode: pH				Date/Time	pH	mV	Temperature	Start
	Consulta Internal	5.0 1				5.01	117.9	25.0 C (MAN)	Start
nductivity	Sample Interval	5 Seconds			-	5.02	117.5	25.0 C (MAN)	
S						5.03	117.2	25.0 C (MAN)	Clear
5						5.03	116.8	25.0 C (MAN) 25.0 C (MAN)	
inity						5.04	116.1	25.0 C (MAN) 25.0 C (MAN)	
						5.05	115.8	25.0 C (MAN)	
istivity				-		5.05	115.5	25.0 C (MAN)	
				Export	×				
(mg/L)				Comments :					
(%)									G
		5		Export To File :					
		5	5.0	Epont To File : Co	Cancel				
		5		0					
		5	25.0						
		5		0					
		5		0					
		5		0					

2. Enter the file name and select the file type. Click **Save** then **OK**.

	Recent Reading					Data Table				
	Mode: pH					Date/Time	pH	mV	Temperature	
ductivity	Sample Interval	5 Seconds					5.01	117.9	25.0 C (MAN) 25.0 C (MAN)	
s							5.03 5.03	117.2	25.0 C (MAN) 25.0 C (MAN)	Gear
						-	5.03	116.5	25.0 C (MAN)	
alinity						_	5.04	116.1	25.0 C (MAN) 25.0 C (MAN)	A
esistivity				Save As				112.5	×	
D (mg/L)										
D (%)				$\leftarrow \rightarrow \land \uparrow \blacksquare \rightarrow \text{This P}$	C > Desktop >		v õ	Ø Search Deskto	p	Export
				Organize 👻 New folder					100 - 00	Export
		_	-	This PC	^ Name			n	^	
			.0	3D Objects						
				Desktop						
				Documents						
			_	- Downloads						
				Music						
				C Pictures						
			25.0	Windows (C:)						
				Data (D:)	~ <				~	
				File name: Live Data						
				Save as type: Excel Wo					~	
				Excel Wo	rkbook(*.xlsx)					
				A Hide Folders	Seperated Values (*.csv)		N	NUMP 1	Cancer	

G. Print

Click the **Print** icon on the right side of the screen to print data. Enter comments (if any) then click **OK** to proceed. Other options are **Preview**, **Page Setup**, and **Cancel**.

pH	Recent Reading			Data Table				Rev 1.00
v	Mode: pH			Date/Time	pH	mV	Temperature	T Start
					5.01	117.9	25.0 C (MAN)	Start
onductivity	Sample Interval 5 Second	S		-	5.02	117.5	25.0 C (MAN)	
)S					5.03	117.2	25.0 C (MAN)	Clear
15					5.03 5.03	116.8	25.0 C (MAN) 25.0 C (MAN)	
alinity					5.04	116.1	25.0 C (MAN)	
,				-	5.05	115.8	25.0 C (MAN)	(F)
esistivity					5.05	115.5	25.0 C (MAN)	Print
			Carl research					
0 (mg/L)			🚔 Print	×				G
D (%)			Comments :					
		5.0	OK Serview	Page Setup				
		25.0	° C (MAN)					
			0					
			0					