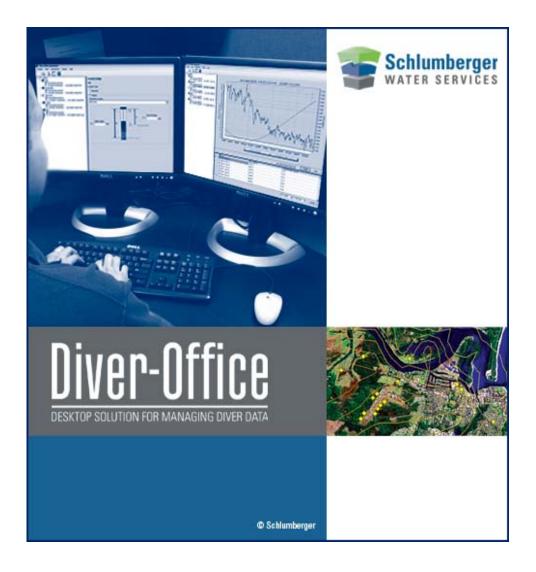
# Diver-Office Getting Started Guide



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#### Introduction

Diver-Office is a software package developed to read and program Diver groundwater dataloggers, download Diver monitoring data, and process and display Diver data. In combination with one or more Diver dataloggers, Diver-Office constitutes a complete and fleixble measurement system.

This document is designed to serve as a 'quick-start' reference guide for those interested in getting started quickly using the most common features of Diver-Office. In this guide, you will become familiar with the following functions:

- Creating a Project
- Selecting Communication Method
- Viewing Diver Settings
- Starting a Diver
- Stopping a Diver
- Downloading Diver Data
- Viewing Data

Before proceeding, be sure that you have successfully installed Diver-Office and the device drivers for the Diver Reading Unit or Interface Cable. Also, make sure the Reading Unit or Interface Cable is connected to your computer.

#### **1.1 Launching Diver-Office**

Once Diver-Office has been installed on your computer, launch the application by following the steps below:

- Go to Start/Programs/SWS Software/Diver-Office.
- Alternatively, double-click on the Diver-Office short-cut, located on your desktop.

#### 1.2 Creating a Project

Upon launching Diver-Office for the first time, you will be prompted with a **Create Project** dialog (shown below).

🞽 Create Project		
Project Name:		
	Create	Cancel

Enter the name of the project, and click [Create].

**Note**: If this is not the first time launching Diver-Office, from the main menu, go to **Project/New** to create a new project.

Once created, the main Diver-Office interface will display (shown below).

	Diver-Office [Sample Project]		-OX
Main Menu ———	Project View Preferences Import Help		
Toolbar	New Open Diver Data Barocomp	нер	
	Sample Project	Project Settings	
		Sample Project	
		Project Folder:	
Project Tree ———	<b>→</b>	C:\DiverOffice\Sample Project\	
Window		Default Export Settings	
		File Type:	
Project Settings		☐ MON	
<b>y</b> 0		CSV	
		NITG	
		File Name Format:	
		Location Date Serial Number	
		Export on Download	
		Vertical Reference Datum;	
		Mean Sea Level	
		_	

Here you can define the **Project Settings** such as the default **Project Folder**, **Vertical Reference Datum** and **Default Export Settings**. For more information on these settings, please refer to the Diver-Office User's Manual.

Take a brief moment to explore the Diver-Office interface, before proceeding with the next section. Note the options in the **Toolbar**. Place your mouse cursor over each button to display a tool tip describing each button's function.

In the next section, we will define the communication settings.

#### **1.3 Selecting Communication Method**

Before you can communicate with Divers, you must specify the appropriate communication method. To do so,

• From the main menu, go to **Preferences** \ Communication

The following dialog will display:

	<u>-   ×</u>
Jnit Port:	
Cancel	Help
	Jnit Port:

From the dropdown list box, select the appropriate reading unit port. For example, if you are using a USB Reading Unit, select USB. If you are connecting to a Diver that requires a serial port connection, select the appropriate serial port.

After making the selection, click [Ok].

### **1.4 Viewing Diver Settings**

Now that the communication method has been defined, Diver-Office can communicate with a connected Diver.

To read the settings of a Diver,

- Place a Diver in the reading unit.
- From the main menu, go to **View** / **Diver** or click the **Diver** button from the toolbar.

Diver-Office will automatically read the Diver and display its settings in the **Diver** dialog (shown below):

Cera-Diver	STOPPED		Actual Data		
erial Number:	\$0144		Parameter	Value	Unit
amples Taken:		48000/48000	Pressure Temperature	1063.4 20.32	cmH2O Celsius
attery Left:		99%	Temperature	20.32	Ceisius
rmware Version:	V1.02				<u>R</u> efresh
ange:					<u>R</u> efresh
	1000.0	cmH2O			
ocation:	1000.0	cmH2O			
ocation: WS ampling Method:	1000.0	cmH2O			
ocation:		cmH2O			

The Diver settings include:

- Diver type
- Diver status, i.e, Stopped, Started
- Number of samples taken
- Battery life remaining
- Location name, Sampling method and Sampling interval

To read more about each Diver setting, please refer to the Diver-Office User's Manual.

The **Diver** dialog is the main interface in which you can communicate with Divers. In addition to reading Diver settings, you can,

- Program Diver settings
- Start\Stop Divers
- Download Diver data into Diver-Office.
- Read actual data from connected Divers.

Calibrate CTD-Diver

The next section describes how to program settings to the Diver.

### 1.5 Programming a Diver

You can change the settings of the Diver by editing the available fields and saving the new information to the Diver. To do so,

- Ensure that the Diver is placed in the reading unit
- Specify the new information for the desired fields. Note: Only Location, Sampling Method, Sampling Interval, Altitude (CTD-Only) and Conductivity Range (CTD-Only) settings can be modified.
- Once the new settings have been entered, click the **Program** button from the toolbar.

Diver-Office will now save the new settings to the connected Diver.

You can verify that the settings were programmed by reading the Settings of the Diver.

### **1.6 Starting a Diver**

Once the settings have been programmed, the Diver can be started. When a Diver is started, it takes and stores samples based on the specified sampling method and interval defined in the Diver settings.

To start a Diver,

- Ensure the Diver is placed in the reading unit.
- From the **Diver** dialog, click the **[O** [**Start**] button.

Depending on the sampling interval defined in the Diver settings, you may be prompted with a warning message indicating the estimated operating time of the Diver. If this message is shown, click the **[Yes]** button.

The **Start Diver** dialog will display (shown below):

Start Diver			_ 🗆 X
This ac	tio <mark>n will</mark> erase	all data on the C	) iver.
Immediate S	art		
C Future Start			
20/11/2007	1:50:31	PM 🗾	
C Smart Future	Start		
Sync Clock			
	Start	Cancel	Help

Here you can select from three different start methods: **Immediate Start**, **Future Start** and **Smart Future Start**. To read more about the various start methods, please refer to the Diver-Office User's Manual.

Once the desired start method is selected, click the **[Start]** button. The Diver status will now be shown as **STARTED** or **FUTURE START** in the Diver settings, depending on which method was selected. The Diver is now ready for deployment in the field.

#### 1.7 Stopping a Diver

To stop a Diver,

- Ensure the Diver is placed in the reading unit.
- From the **Diver** dialog, click the **Settings** button to display the current Diver settings. The Diver status should be shown as **STARTED**. You will notice that all of the settings fields (e.g **Location**, **Sampling Method** etc) are disabled.
  - Next, click the **Stop** button.
- A message will show, warning you that all stored data will be lost upon restart (shown below).

Diver-Off	îce 🛛 🔀
1	If the Diver is stopped, the data will be lost upon restart. Would you like to continue?
	Yes No

• Click the **[Yes]** button.

The Diver settings will be shown, and the Diver status will be STOPPED.

#### 1.8 Download & View Diver Data

To download data from a Diver,

- Ensure the Diver is placed in the reading unit and that the settings have been read.
- Click the Data button.

While Diver-Office downloads the data, the download progress will be shown in a progress bar. If the **Export on Download** option is selected in the Project Settings, the downloaded data will automatically export in the specified file types, to the project folder. Once complete, Diver-Office will add the location and its time-series data to the Project Tree (shown below).

Project View Preferences Import Help	Pressure (cmH2O)	993 992	2/2007 5:00:00 PM - 06/	12/2007 9:15:00 AM 24.4 23.8 due ( 23.4 due) 23.4 due) 23.4 due) 23.2 dues 23.2 d
		991 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	M 12:00 AM 2:00 AM 4:00 AM e (cmH2O)	erature (Celsius)
		6.00 PM 8:00 PM 10:00 PM	e (cmH2O) 🛛 —— Temp	erature (Celsius)
	•	6:00 PM 8:00 PM 10:00 PM	e (cmH2O) 🔽 — Temp	erature (Celsius)
	•	6:00 PM 8:00 PM 10:00 PM	e (cmH2O) Temp	erature (Celsius) Settings Print Temperature (Celsius)
	•	6:00 PM 8:00 PM 10:00 PM Control Pressure Date & Time December 5, 2007 5:00:00 0 PM December 5, 2007 5:15:00.0 PM	e (cmH2O)  Temp  (cmH2O)  Pressure (cmH2O)  990.8	erature (Celsius) Settings Print Temperature (Celsius) 24.54
	<b>•</b>	6:00 PM 8:00 PM 10:00 PM Common Pressure Date & Time December 5, 2007 5:00:00 0 PM December 5, 2007 5:30:00 0 PM	e (cmH2O)  Temp  (mH2O)  Pressure (cmH2O)  930.8  931.4	erature (Celsius) Settings Print Temperature (Celsius) 24.54 24.51
		B:00 PM         8:00 PM         10:00 PM           Image: Comparison of the state	e (cmH2O)  Temp  (mH2O)  Pressure (cmH2O)  90.8  91.4  91.4	Temperature (Celsius)           Temperature (Celsius)           24.54           24.51           24.35           24.23
	<b>&gt;</b>	Date & Time           December 5, 2007 5:00:00 0 PM           December 5, 2007 5:00:00 0 PM           December 5, 2007 5:30:00.0 PM           December 5, 2007 5:45:00.0 PM           December 5, 2007 6:00:00.0 PM           December 5, 2007 6:00:00.0 PM	e (cmH2O)  Temp Pressure (cmH2O) 900.8 991.4 991.4 991.8 992.4 992.7	Temperature (Celsius)           Temperature (Celsius)           24,54           24,55           24,23           24,21           24,20
		Date & Time           December 5, 2007 5:00:00 0 PM           December 5, 2007 5:00:00 0 PM           December 5, 2007 5:30:00.0 PM           December 5, 2007 5:45:00.0 PM           December 5, 2007 5:45:00.0 PM           December 5, 2007 5:45:00.0 PM           December 5, 2007 6:00:00.0 PM	e (cmH2O) Temp Temp Pressure (cmH2O) 990.8 991.4 991.4 991.8 992.4	Temperature (Celsius)           Temperature (Celsius)           24.54           24.51           24.35           24.23

The time-series data will be displayed as both a plot and table in the adjacent window.

#### 1.9 Learning more about Diver-Office

This guide has introduced some of the more common tasks that can be performed in Diver-Office. To learn about Diver-Office in more detail, please consult the accompanying Diver-Office User's Manual. The User's Manual provides a succinct overview of all the Diver-Office features including:

- Navigating the Project Tree
  - o Location Settings
  - o Manual Measurements
  - o Time-Series Plot settings
  - Printing time series
  - Searching time series data
- Diver Communication
  - Start/Stop Diver
    - Start methods
  - Read/Program Diver
  - Calibrate CTD-Diver
  - Reading CTD-Diver Calibration history
  - o Reading Actual Data
- Data filtering
- Creating user-defined pumping tests
- Data Import/Export
- Changing Diver-Office default units
- Barometric Compensation