



WWW.DATABADGER.CO.UK

BadgerView Software Operating Manual



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1. Introduction

DataBadger is a Windows PC software application which allows the user to easily and quickly view and log data from the DataBadger range of devices. This software is designed to be operated without any specialised knowledge of network operation or programming.

This manual provides an overview of the main features of the BadgerView application and allows the user to rapidly focus on obtaining the data they need.



2. Getting Started

This section discusses the requirements of the BadgerView application and provides a guide to the installation process.

2.1. Requirements

BadgerView has the following system requirements;

- .NET Framework 4.7.2 (packaged with BadgerView)
- OS: Windows 10, 8, Vista
- Memory 512 MB RAM
- 10 MB installation hard drive space + sufficient space for any log files
- Network connection, on same subnet as target logger devices
- Port 30331 access
- Port 9772 access

2.2. Installation

The BadgerView application can be downloaded from www.databadger.co.uk/software. A website user account must be created in order to download the application. BadgerView is downloaded as a .zip file containing;

1. BadgerView Setup.msi
2. Setup.exe
3. The following steps detail the installation process;
4. Open the BadgerView.zip file downloaded from our website
5. Double click the "Setup.exe" file and follow the installer instructions
6. If Windows displays the warning message shown in Figure 1, click the underlined, "More info" link -> Run anyway.

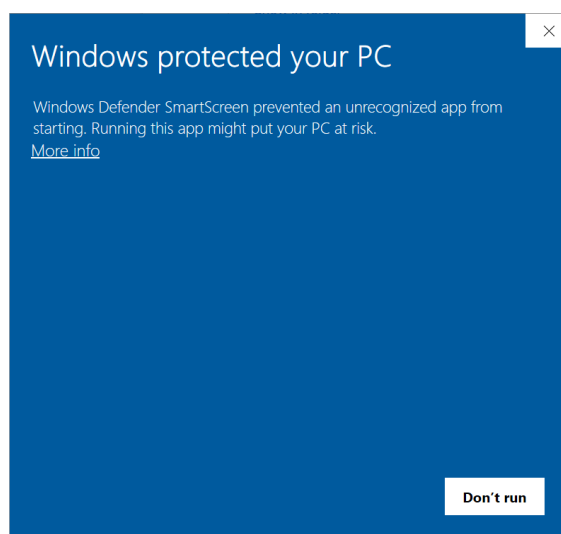


Figure 1: Windows installer warning



7. Once installation completes a BadgerView icon will be placed on the Windows desktop and in the start menu under the DataBadger folder.
8. Double click the desktop or Start menu icon to start the application.

2.3. Software Updates

DataBadger encourages users to keep their software up to date to enjoy new features and functionality. Users on our mailing list will receive email updates when new BadgerView versions are released. Otherwise, please periodically check www.databadger.co.uk/software for more information.

2.4. Licensing

The BadgerView application is free to use with a single logger device. However, should the user wish to log data from multiple devices at the same time, a software license must be present. Software licenses can be purchased via the DataBadger online store at www.databadger.co.uk.

A software license can be installed using the following procedure;

1. Purchase a software license through the website or by speaking with a sale representative
2. Start the BadgerView application
3. Select Tools -> Licensing on the top bar menu
4. Copy the system key shown in Figure 2 from the pop up and email to admin@databadger.co.uk. Please also provide a contact name, company name, address, phone number and email.
5. The DataBadger support team will send an email to the contact named with a .lic file attached. Please place this file in the BadgerView application directory where the application was installed. The BadgerView window heading should now say "Licensed" when the application is restarted.

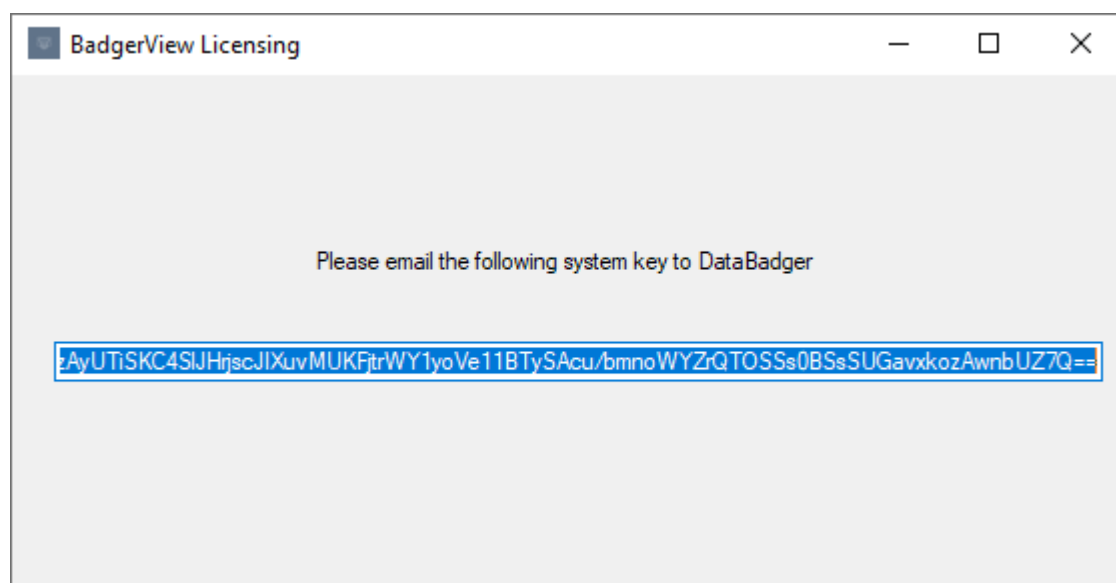


Figure 2: BadgerView licensing window with system key highlighted



3. Application Overview

3.1. Main User Interface

The user interface of the BadgerView software is designed to allow users to focus on their data, not the devices. With that in mind, the interface is kept clean, with no clutter or distractions.

Figure 3 shows the main user interface with the device tree view on the left and the display window on the right. The display window has a number of tabs at the top, allowing the user to access data display, device settings, data settings, and system settings.

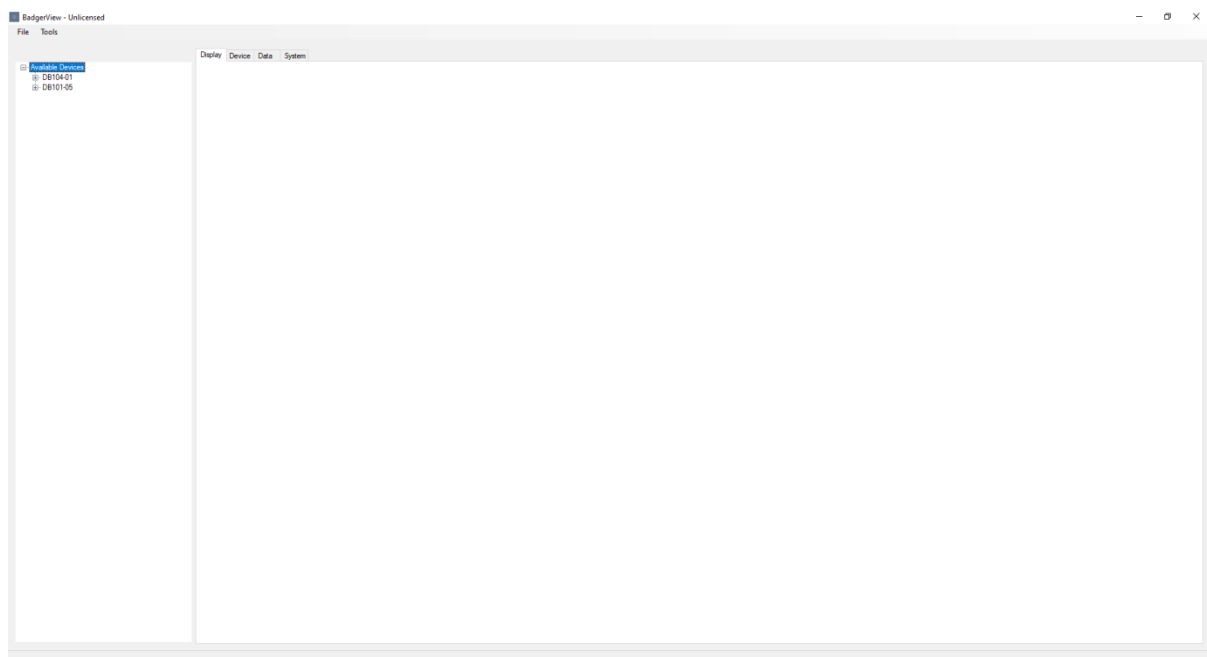


Figure 3: BadgerView Main User Interface

3.2. Device Settings

The device settings tab allows the user to view and modify settings associated with the data logger selected in the device tree view. To view the settings belonging to a device, click the device in the tree view and select the, “Device” tab. The device is then queried and it’s settings displayed in the table. Figure 4 shows a DB104-01 device selected and the corresponding settings loaded in the Device tab.

The settings shown are dependent on the model of the device selected. Please consult the device user manual for the relevant device to view the settings and parameters available.

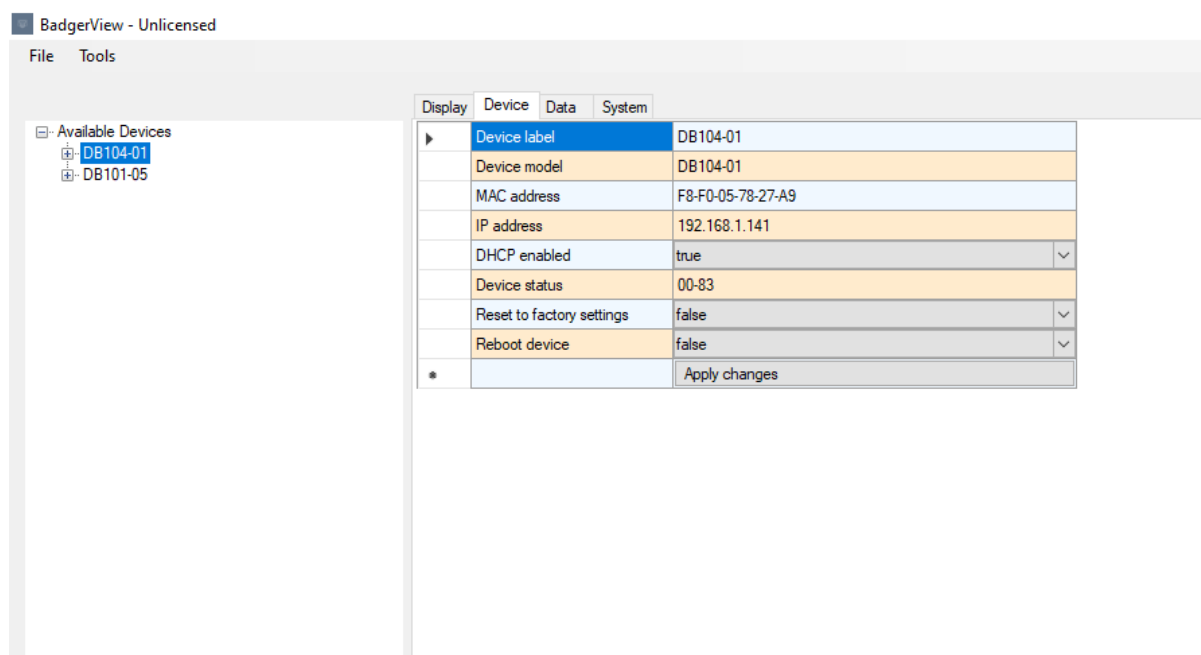


Figure 4: 104-01 device settings

3.3. Data Settings

The data settings tab allows the user to view and modify settings associated with the data logger sensor interface. To view the sensor settings belonging to a device, click the device in the tree view and select the, “Data” tab. The device is then queried and it’s settings displayed in the table. Figure 5 shows a DB104-01 device selected and the corresponding settings loaded in the Data tab.

The settings shown are dependent on the model of the device selected. Please consult the device user manual for the relevant device to view the settings and parameters available.

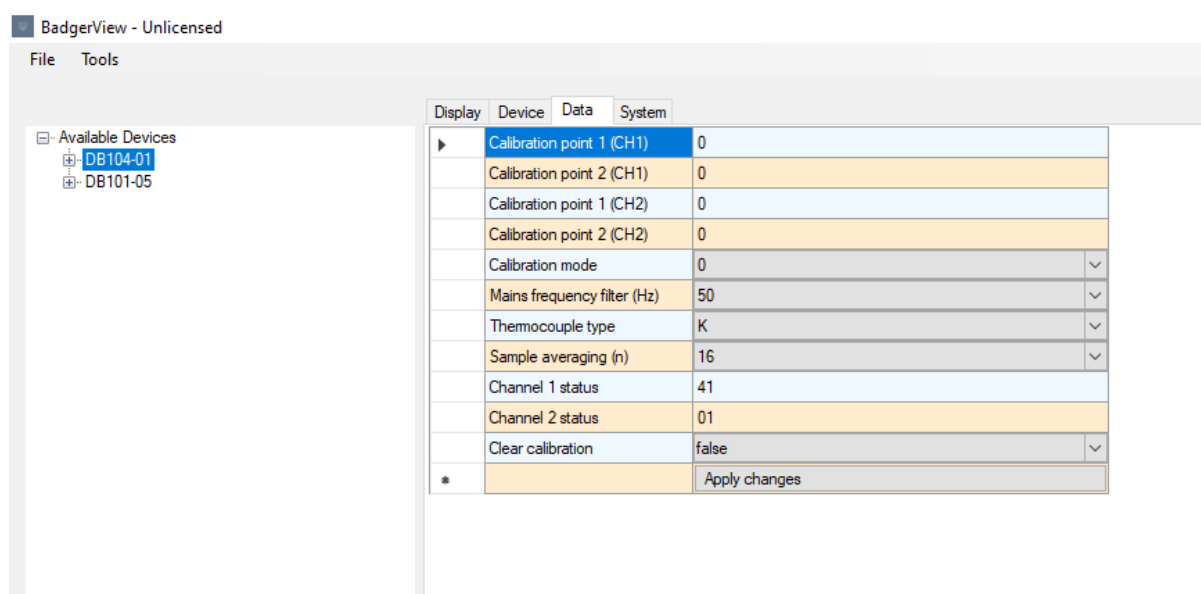


Figure 5: 104-01 data settings

3.4. System Settings

The system settings tab provides settings which are global to the BadgerView application. The System tab is shown in Figure 6. The available settings and their editable status are shown in Table 1. Click the, “Apply changes” button to confirm any changes made on the System tab.

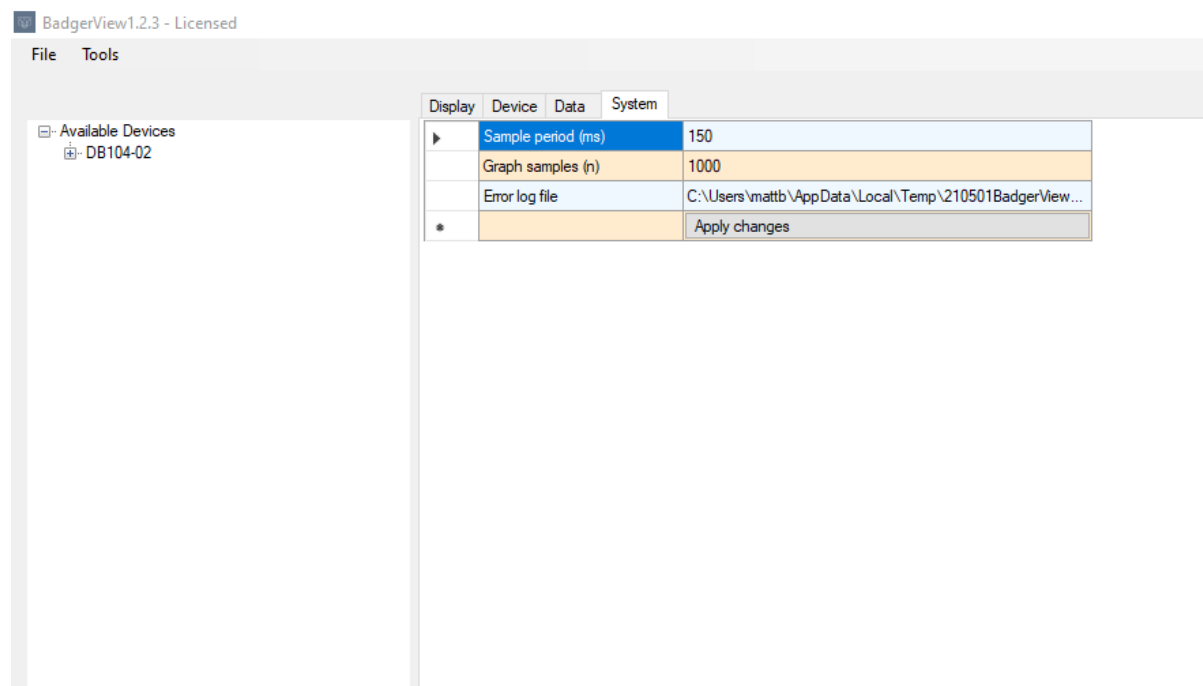


Figure 6: System settings tab

Table 1: System settings

Parameter	Default Value	Read/Write
Sample rate (ms)	1000	R/W
Graph samples (n)	1000	R/W
Error log file	N/A	R

3.4.1. Sample Rate

The sample rate set in the System tab determines the global rate at which BadgerView acquires data from all logged devices. BadgerView acquires data from each logged device, waits the specified duration and then triggers sampling again.

The overall data throughput is therefore determined by the number of data channels being logged, the local network bandwidth available (router contention), and the sample rate specified.



3.4.2. Graph Samples

The graph samples entry specifies the maximum number of data points per data channel which will be displayed on the chart in the display tab. Once the maximum number of data points has been reached, the chart will automatically scroll along the time axis.

3.4.3. Error log file

The error log file entry displays the location of the BadgerView error log file. In the event of any internal errors, details are written to the error log file. Should the user require technical support from DataBadger, it is likely this error log will be requested to aid investigation.



4. BadgerView Operation

4.1. Device Detection

In order to interact with a DataBadger device, the BadgerView application must first locate it on the local area network. BadgerView does this by sending a broadcast message over the network, to which all DataBadger devices reply. Once a device has been identified it is added to the device tree view on the left of the main user interface.

Figure 7 shows the device tree view with two devices located. In this instance, a DB101-05 Ethernet thermocouple logger and DB104-01 Wifi thermocouple logger have been identified. Both devices are displayed in summary mode, with the available data channels hidden. Clicking the + symbol to the left of the device expands the listing to show data channels available, as shown in Figure 8.

BadgerView automatically searches for available devices on start up. However, the user can manually search for devices by selecting Tools -> Find Devices in the top bar menu.

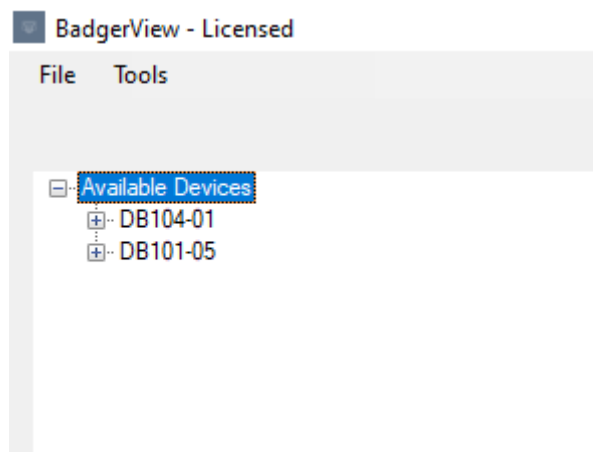


Figure 7: Device tree view with two devices

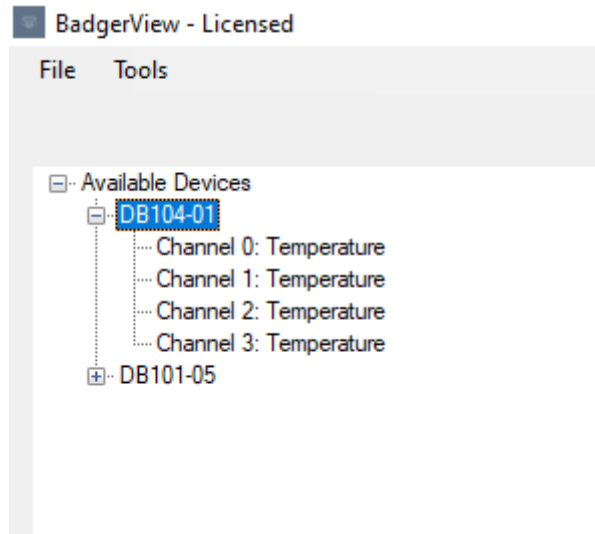


Figure 8: DB104-01 expanded to show available data channels

4.2. Adding Data Channels

To view device data, the user may add data channels to the Display tab graph. In order to add a channel;

1. Select the + symbol next to the desired device to display available channels for measurement, as shown in Figure 8
2. Right click the data channel of interest and click, "Add"
3. BadgerView will request data at the sampling rate set in the System tab. Data acquired will be displayed on the data chart, as shown in Figure 9.

The data chart can be cleared by clicking Tool -> Clear Chart on the top bar menu. This also stops data acquisition from all devices.

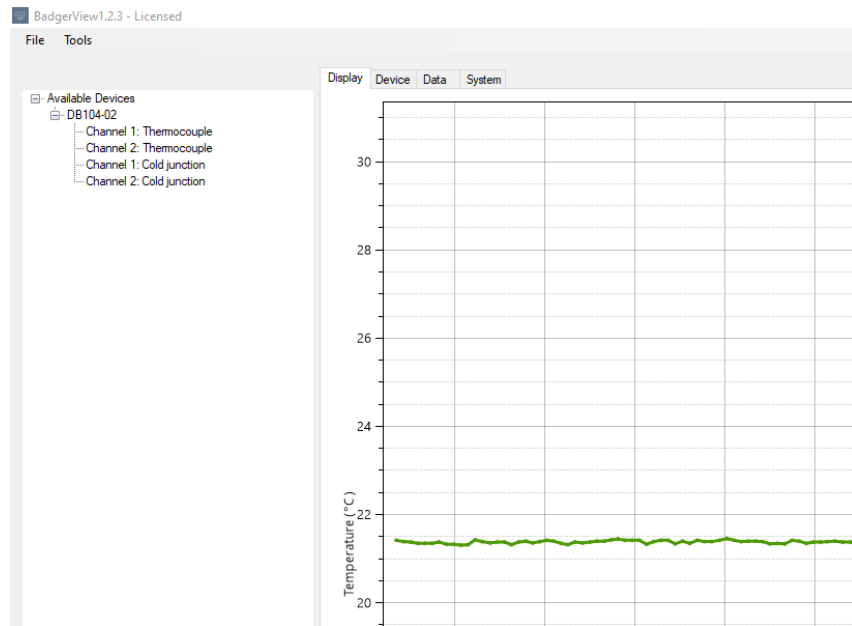


Figure 9: Data channel acquisition

4.3. Logging Device Data

With device data being acquired, the user can record this data to file by selecting File -> Log To File on the top bar menu. The file prompt will be shown, asking the user to select where the data file is to be stored. Select the file name/location as required and click OK.

Data is written to file in a CSV format, which can be natively opened in Microsoft Excel or similar.

In order to stop logging click File -> Stop Logging on the top bar menu.



5. Support

For any support or sales queries please contact admin@databadger.co.uk