



# BRUCONTROL

Process Automation Made Personal

BruControl v1.1.9 (v1.2 Beta)  
Installation

Updated: June 24, 2020

When first upgrading from v1.1 to v1.2, it is important to follow these instructions completely:

1. Close the existing BruControl application if running. Select “DISABLE ALL AND SHUTDOWN” or “SHUTDOWN APP ONLY” as appropriate.
2. Backup existing BruControl data folder. This folder is located in the user’s “Documents” folder. Make a duplicate of this folder and copy it to a safe location, preferably on another drive (USB key, network share, cloud store, etc.). DO NOT SKIP THIS STEP!
3. Backup existing BruControl Application folder. This folder is where the BruControl application files are located, which was selected upon initial install. Make a duplicate of this folder and copy it to a safe location, preferably on another drive (USB key, network share, cloud store, etc.). Once backed up, rename this folder to a new backup name, such as ‘BruControl\_backup’.
4. Create a new BruControl application folder and extract the v1.2 BruControl application files there. Do not delete the existing version in step 3 in case it needs to be restored.
5. Note: Existing Element Data will not carry over from the previous version. Therefore, graphs will reset and not display historic data.
6. For newer computers compatible with SQL Server Express 2019:
  - a. BruControl now uses a database supporter by SQL Server Express 2019 for data storage. This is more efficient than the file-based storage in previous versions.
  - b. BruControl will require an instance of SQL Server 2019 LocalDB to be installed on the local computer.
    - i. To install SQL Server 2019 LocalDB, download and install (free) from: <https://download.microsoft.com/download/7/c/1/7c14e92e-bdcb-4f89-b7cf-93543e7112d1/SqlLocalDB.msi>
  - c. At startup, if it doesn't already exist, BruControl will create a new database within the normal data directory, under the file:  
<user>/Documents/BruControl/Data/Data.mdf.
  - d. OPTIONAL: Relocating the database file:
    - i. By default, BC will attempt to connect to the database within the standard data directory noted above. The default connection string for accessing this database using SQL Server 2019 LocalDB is:

```
Data Source=(LocalDB)\MSSQLLocalDB;AttachDbFilename={0};Integrated
Security=True
```

- ii. BC will replace the {0} portion with the full path to the Data.mdf file. This connection string can be overridden using the settings.brusettings file, located here: <user>/Documents/BruControl/settings.brusettings. Specify a different string within the <DBConnection> section of the file. It will be empty by default.
7. For older computers or those incompatible with SQL Server Express 2019, especially 32-bit versions, SQL Server 2012 will need to be used. BruControl can be configured for SQL Server 2012 by using the following steps:
  - a. Download and unzip this SQL Server 2012 package into a new, temporary folder: <https://brucontrol.com/wp-content/uploads/2020/06/SQLServer2012.zip>
  - b. Change BruControl v1.2 to use 2012 by overriding the default connection string by editing BC settings file 'settings.brusettings', located here: <user>/Documents/BruControl/settings.brusettings. Change the line:

```
<DBConnection i:nil="true" />
```

to read:

```
<DBConnection>Data
Source=(LocalDB)\v11.0;AttachDbFilename={0};Integrated
Security=True</DBConnection>
```

- c. Note: compared to the default connection string, the 'MSSQLLocalDB' is being changed to 'v11.0' to specify SQL Server 2012 instead of 2017.
    - d. Replace the default empty database file with one that is compatible with SQL Server 2012. The 2012 database file is provided within this package. Copy it to this folder: <user>/Documents/BruControl/Data/Data.mdf.
8. Execute the new version of BruControl, and carefully check that all Elements, Scripts, Workspaces, etc. are functioning as expected.
  - a. If not, Restore the previously back-ed up folder if needed.
9. Troubleshooting
  - a. BruControl v1.2 utilizes the .NET Framework 4.4. If an older or un-updated computer is being used, this may need to be downloaded and installed from here: <https://www.microsoft.com/en-us/download/details.aspx?id=48130>
  - b. The controller log (located in <user>/Documents/BruControl/Logs, with a prefix of 'controller.' and suffix of the date) will document any errors connecting to the new database.
  - c. If the installation computer issues a version error, please see: <https://weblogs.asp.net/dixin/installing-sql-server-2017-2019-localdb-and-resolve-the-engine-versioning-problem>

Change Log

Fixed: Hysteresis result is not a boolean type  
Fixed: PID Calc and Out Times  
Fixed: Overlapping alarms prevent second+ alarms sounds and email  
Fixed: Certain text characters pasted in script causes crash  
Fixed: Graph of Global on different Workspace doesn't display  
Changed: Swap Settings/Menu icons  
Changed: Updated to use .NET Framework 4.4  
Added: Automatic Lock  
Added: Direct script command  
Added: SQL Database for data  
Added: Switch to disable log files (default)  
Added: String text line feed  
Added: Element Display Name (alias) field  
Added: Script running status available in another script  
Added: Dual Throw output (pending FW 45K)  
Added: Device Element Enable Switch  
Added: Choice of 3 or no Alarm sounds, plus script control  
Added: Element location and size in properties  
Added: Use PWM (if available) in PID and Deadband (pending FW 45K)  
Added: Direct command (to interface) via script  
Added: Script window height in settings

Contact BruControl at [info@brucontrol.com](mailto:info@brucontrol.com) with any questions or concerns.