

Eurotherm® *by Watlow*



Data Reviewer ReadMe

HA033274ENG
Issue 5.4

Contact Information

Eurotherm Limited (Head Office)

Faraday Close
Worthing, West Sussex
BN13 3PL UK
Tel. (+44) 1903 263333

Eurotherm Automation SAS

6 Chemin des Joncs – CS 20214
Dardilly cedex
Lyon, 69574
France

Scan for local contacts



www.watlow.com/contact-us

eurotherm.com



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Overview

Eurotherm Data Reviewer is a browser-based application, which lets you view, analyse, and print data history files (UHH files) taken from Eurotherm recording devices such as, but not limited to:

- Paperless graphical recorders (6000 series)
- Hybrid recorders / controllers (nanodac™ recorder / controller)
- Programmable Automation Controllers (T2750 PAC)

License Options

Two licensed editions are available, Enterprise and Foundation.

- The Enterprise Edition license is recommended for server-based installations, it can be used by multiple users and clients.
- The Foundation Edition is for use on a standalone Windows PC or server, as it is restricted to a single user, has a 20 GB database size limit and is only available through a localhost (no remote connection possible).

The Foundation Edition license, as well as licenses for all other Editions must be activated through the License Manager (Refer to the **License Manager Settings** on the Online Help).

First Time Login

Before you install, uninstall, or operate the software application, make sure you have administrator rights on your computer.

Foundation Edition

Users will be prompted to create a login password when starting Eurotherm Data Reviewer for the first time. The minimum password length is 12 characters. It is vitally important that this password is remembered as it will serve as the password for clearing the database for Eurotherm Data Reviewer Foundation Edition. If the password is forgotten please contact [Eurotherm Helpdesk](#).

Enterprise Edition

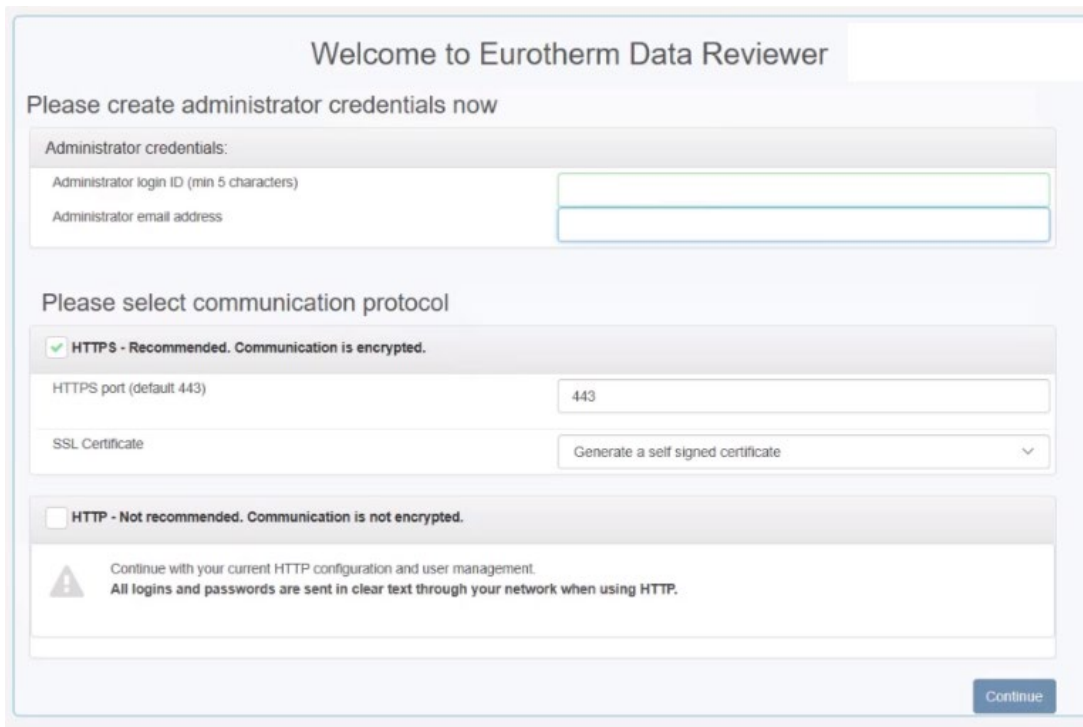
Users will receive an email from the administrator which asks them to confirm their email address. User accounts with no registered email address must be supplied with a password by the administrator.

Create an Administrator Account

When the Enterprise Edition version is opened for the first time, you must create an administrator account and configure the communication protocol. The first administrator account cannot be deleted or locked out. More administrator accounts can be created, and these can be deleted.

To create an administrator account:

1. Double-click the Eurotherm Data Reviewer icon  (or right-click and select **Open**).
A dialog box appears with the necessary details to create an administrator account.



Welcome to Eurotherm Data Reviewer

Please create administrator credentials now

Administrator credentials:

Administrator login ID (min 5 characters)

Administrator email address

Please select communication protocol

☒ **HTTPS - Recommended. Communication is encrypted.**

HTTPS port (default 443)

SSL Certificate

☐ **HTTP - Not recommended. Communication is not encrypted.**

 Continue with your current HTTP configuration and user management.
All logins and passwords are sent in clear text through your network when using HTTP.

Continue

2. Enter an administrator login ID and email address.

3. If required, select the communication protocol now or after the first log in, go to **Administration > Server Configuration** to set the server communication protocol.

- **HTTPS (default and recommended)**

If HTTPS is used, communication is encrypted.

1. Enter a tick in the checkbox.
2. If required, change the default port (default is 443).
3. From the **SSL Certificate** drop-down, select a valid SSL certificate or **Generate a self-signed certificate**.

Notes:

- If a self-signed certificate is created, it is named to *ReviewerCert.pfx* and stored at: *<install Path>\Program Files\Eurotherm\Eurotherm Reviewer\ReviewerService*.
- For HTTPS connections, only TLS 1.2 and 1.3 will be enabled. You can check your browser compatibility for [Enterprise Edition](#) or [Foundation Edition](#).

- **HTTP**

If HTTP is used, communication is not encrypted.

1. Enter a tick in the checkbox



Warning: HTTPS is recommended for server communications. HTTP has little inherent security and can be used as a transport mechanism for cyberattacks.

For more information, refer to the **Change the Server Communication Protocol** section on the Online Help.

4. Click **Continue**, and then click **OK** to confirm the server configuration changes.
Note: If **HTTPS** is selected and you do not confirm the changes within 120 seconds, the configuration defaults to HTTP and vice versa.
5. In the login screen, create a password for the administrator account.
Note: For the initial setup, the minimum password length is 12 characters. You can change this in **Administration > Access Management > Security Policies** once logged in.
6. Click **Confirm**.

The Enterprise Edition opens, and you can now log in with the newly created administrator account's ID and password. Once logged in, configure the security policies, access permissions and email on the **Administration > Access Management** page.

Notes:

- Once opened, the application can be saved as a bookmark (Favourite / Bookmark).
- If there is no valid SMTP configuration or the first administrator account does not have an email set up, it is recommended to create a second administrator account to retrieve forgotten passwords.

Technical Specifications

Enterprise Edition Requirements

Item	Minimum	Recommended
Operating System	Windows Server™ 2019, 2022, 2025 or Windows 11	Windows Server™ 2025
RAM	16 GB	32 GB
Processor	2.7 GHz, Intel™ core i7 processor or equivalent	2.7 GHz, Intel™ quad core i7 processor or equivalent
Disk Space	See Database Size Requirements	See Database Size Requirements
Windows Active Directory	Windows servers 2016, 2019 or 2022	Windows server 2019
Web Browser	Google Chrome and Microsoft Edge version 148 or higher	Google Chrome or Microsoft Edge version 148 or higher
Screen Resolution	1360 X 768	1920 x 1080
Microsoft .NET 10 ¹		

¹ If your Windows PC is connected to the Internet, the installer application will automatically download and install Microsoft .NET 10. If there is no internet connection, the download and installation will need to be done manually.

Foundation Edition Requirements

Item	Minimum	Recommended
Operating System	Windows 11 (64-bit, Professional or Enterprise)	Windows 11™ (64-bit, Professional or Enterprise)
RAM	8 GB	16 GB
Processor	2 GHz, Intel™ Pentium™ i5 dual core processor or equivalent	2 GHz, Intel™ Pentium™ i5 dual core processor or equivalent
Disk Space	60 GB of free hard disk space	60 GB of free hard disk space
Web Browser	Google Chrome and Microsoft Edge version 148 or higher	Google Chrome or Microsoft Edge version 148 or higher
Screen Resolution	1360 x 768	1920 x 1080
Microsoft .NET 10 ²		

² If your Windows PC is connected to the Internet, the installer application will automatically download and install Microsoft .NET 10. If there is no internet connection, the download and installation will need to be done manually.

Default TCP Ports

Component	Default TCP Port	Comments
Elasticsearch	9200 and 9201	Data Reviewer service requires access to this port. To help enhance security, it is recommended this port should be closed to external resources.
Data Reviewer web HTTP application	80	Inbound connections must be enabled on selected reviewer port (80, 443, or any other user selected port).
Data Reviewer web HTTPS application	443	Inbound connections must be enabled on selected reviewer port (80, 443, or any other user selected port).
FTP	20 or 21	Only outbound connection (usually, firewall enables that by default).
SFTP	22	Only outbound connection (usually, firewall enables that by default).
LDAP or LDAP using TLS	389	Only an outbound connection.
LDAPS	636 (using SSL)	Only an outbound connection.
Syslog over UDP	514	Only an outbound connection.
Syslog over TCP	514	Only an outbound connection.
Syslog over TLS	6514	Only an outbound connection.
OPC UA	48030	Only an inbound connection.

Database Size Requirements

The table below shows examples of memory duration, which can be used as a guideline for the data storage requirements for the Enterprise Edition. Values quoted are per recording device.

For example, 20 GB of data storage space will give approximately 27 days of data storage for a single recording device with 18 points and a 125 ms recording interval. If there are 10 recording devices, each with 18 points recording at 125 ms, then the data storage requirements for a year would be 2.7 TB.

No. of Recording Points / Recorder	Recording Interval (secs)	Data Storage Space	
		20 GB	200 GB
6	0.125	80 Days	2.2 Years
6	1	1.7 Years	17.2 Years
6	10	17.2 Years	173 Years
12	0.125	40 Days	1.1 Years
12	1	324 Days	8.8 Years
12	10	8.8 Years	88 Years
18	0.125	27 Days	270 Days
18	1	217 Days	5.9 Years
18	10	5.9 Years	59 Years
24	0.125	20 Days	200 Days
24	1	164 Days	4.5 Years
24	10	4.5 Days	45 Years
48	0.125	10 Days	100 Days
48	1	81 Days	2.2 Years
48	10	2.2 Years	22 Years

Install the Software Online

Eurotherm Data Reviewer can be installed from the Eurotherm Ltd. web site.

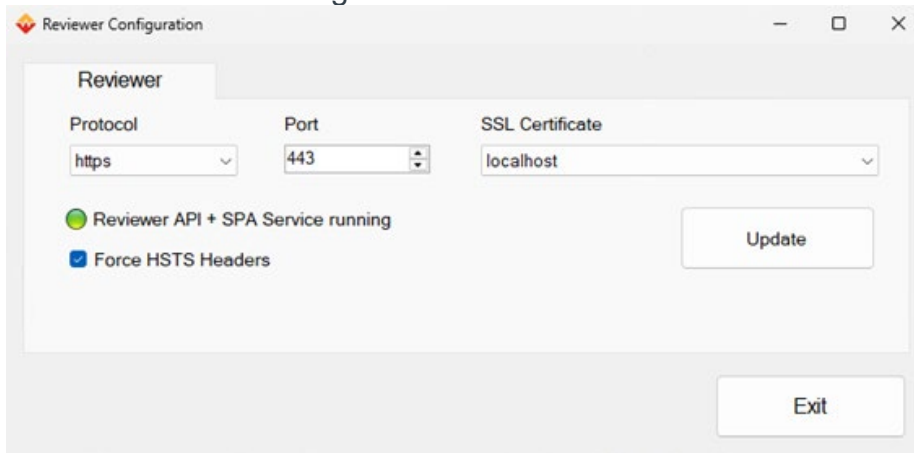
1. Go to www.eurotherm.com.
2. Click Software.
3. In the Search downloads text box type in Eurotherm Data Reviewer, then click Apply Filters.
4. Click Eurotherm Data Reviewer Vx.x.x (the download begins immediately).
5. Go to your default download folder and extract the files in the *EurothermDataReviewer Vx.x.x.zip* file.
6. Go to the EurothermDataReviewer Vx.x.x folder and open the *EurothermDataReviewer Vx.x.x.exe* file.
7. Follow the on-screen instructions.

If the default port (port 80) is not available, the installer shows a message to use the [Port Configuration tool](#) to set an available TCP/IP port. See section, How to configure the TCP/IP port to change to an available port for HTTPS or HTTP options.

Port Configuration Tool

If you are not able to access the web interface because of incorrectly configured (or forgotten) ports, or there is a conflict with the port (another service is running and using the default port), use the Port Configuration tool.

1. On the Windows PC, go to Start > Eurotherm Data Reviewer.
2. Double-click Port Configuration tool.



3. Select HTTPS or HTTP from the Protocol drop-down list.
It is recommended to use HTTPS. If HTTP is used data is transmitted in clear text, which includes usernames and passwords.
4. HTTPS only: Select a valid SSL Certificate.
5. Select an available network Port (use the up and down arrows or enter a value).
 - If the Protocol indicator shows red (🔴), the port selected is unavailable. Enter a new port number and click on Update (this may take a few minutes). If it stays red, select an alternative port.
 - If the Protocol indicator shows green (🟢), the port is correctly configured
6. HTTPS only: Click in the tick box to enable or disable Force HSTS Headers.
 - Enable: The Reviewer API+SPA Service restarts (this may take a few minutes)
If the Protocol indicator shows red (🔴) go to Services.
(C:\ProgramData\Microsoft\Windows\Start Menu\Programs\Windows Administrative Tools) and restart the Reviewer API+SPA Service manually
 - Disable: Do not put a tick in the tick box.
7. Click Update.
8. Click Exit.
9. Restart the Windows PC.

When the Windows PC starts up again you will be connected to your selected port and the required HTTPS or HTTP.

Uninstall the Software

Use the Windows Uninstall or change a program utility to uninstall the program correctly from your Windows PC.

Before you start to remove Data Reviewer, make sure that there is no data file import (automatic or manual) in progress and the Inbox folder is empty.

1. On your Windows PC go to **Control Panel > Programs and Features**.
2. Search for **Eurotherm Reviewer**.
3. Click **Eurotherm Reviewer**, then click **Change** (or right-click Eurotherm Reviewer and select **Change**).
4. In the Installation Wizard, click **Next**.
5. Click **Remove** (radio button) > **Next**.
6. Follow the Installation Wizard on-screen instructions.
7. When the removal procedure is completed, restart the Windows PC (recommended).

The software has now been removed from your Windows PC. Some files and folders are not deleted, and these [can be removed](#), if required.

Remove Additional Files

After Eurotherm Data Reviewer has been removed from your Windows PC some additional files and folders are not automatically removed. You can remove these files and folders manually, if required.

Before you remove any files and folders, make sure you back up the Reviewer folder (*ProgramData\Eurotherm\Reviewer*), which contains the archived UHH files and log files. These folders (and files they contain) can be deleted:

- *<Install Path>:\ProgramData\Eurotherm\Reviewer*
- *<Install Path>:\Program Files\Eurotherm\Eurotherm Reviewer*

Known Issues

- After upgrading to Version 4.0 the Annotation Fail type message will not be selected by default in the message filter. Go to the message filter in Global Settings and/or Scheduled Reports to enable it.
- Chart Width has been replaced by Time Axis.
If the optional Chart Width feature was being used previously, this setting will be lost upon moving over to V2.1.0
To set it up again, it is necessary to add the original info into the Fit to (Chart width) section.
For example, if a chart width of 100mm was originally specified, you now need to select Fit to (Chart width) and manually enter 100 into the first box and select "mm" from the drop-down. In this way the old chart width setting will be restored.
- During Elastic Search migration from version 5 to version 7, reviewer services will be disabled. Depending upon how much data needs migrating it may take a few hours.
- If, after a fresh installation or after activating a new license, a message to activate a license is shown, restart the Windows PC or wait for five minutes and refresh the browser page.
- For V5.1.0 or earlier, cannot import data from a T2750 or a T2550 instrument, through an FTP/SFTP server (data source). Configure the T2550 and the T2750 instruments as Data Sources, so that UHH files are imported from the instruments.
- Data Reviewer cannot be installed on the same machine as AVEVA Historian, as both applications utilize Elasticsearch, resulting in a TCP port conflict.
- The port 80 configuration setting will be affected if the Eurotherm Data Reviewer is being installed on a Windows PC where Wonderware (Aveva), is pre-installed. To resolve the issue, do the procedure that follows:
 1. Activate a Foundation or Enterprise license (**Refer to the License Manager Settings** on the Online Help).
 2. Configure an available TCP port with the Reviewer Configuration tool and restart the Windows PC.
 3. Open the Eurotherm Data Reviewer.
- When an annotation is added the local time of when the annotation was added does not immediately show in message panel. Refresh the page to see the local time information on the message.
- Unable to transfer files through FTP for E+PLC products. In this application the E+PLC products should be configured to push files to an FTP server, with the Eurotherm Data Reviewer pulling files from the specified server.
- A/B switching is not supported by the nanodac recorder/controller.

Features not Supported

- PKD file import
- Point properties are not supported for Circular charts
- For HTTPS connections, TLS 1.1 and lower are not supported

Open-Source Software

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Boost	www.boost.org		LGPL	www.gnu.org
Gsoap	www.cs.fsu.edu		GPL	www.gnu.org
BSD	www.linfo.org		DOTNET	www.microsoft.com
GPL2+CE	www.gnu.org		MS-ASPNET	www.microsoft.com
Unicode	www.unicode.org		MPL	www.mozilla.org
Zlib	zlib.net		Openssl	www.openssl.org
DiskQueue	githubusercontent.com		Elastic	www.elastic.co

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HA033274ENG Issue 5.4 / Published May 2026.

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