

System Requirements Client for using IngSoft InterWatt

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§ 1 Preliminary remark

This document describes the system requirements that are necessary to install the client components of the software "IngSoft InterWatt". This document only becomes contractually binding when this document is incorporated into a contract.

It describes the current state of the system requirements at the time of its writing and thus those system requirements that are necessary to use the current version of the software. Subsequent versions of the software may have different system requirements if they improve the performance or security of the overall system.

§ 2 Overview of client programs

IngSoft InterWatt keeps the data on a central server, with which various so-called client programs exchange data. Only these client programs are intended for direct use by users.

The following client programs are currently available:

Name	Description	System requirements (short version)
EnergieMonitor	Web interface for setting up and everyday operation of the system (e.g. display of evaluations, input of readings and energy calculations, setup of user administration, building structures, meter assignment, etc.).	Microsoft Edge, Google Chrome, Mozilla Firefox, oder Safari (MacOS) respectively in the current version or the direct previous version
App for Android	Offline-capable recording of meter readings and other functions such as message reception. (The use of the apps may have to be licensed separately)	Android from version 10.0
App for iOS		iOS from version 15.5

§ 3 General System Requirements

1. One e-mail address per user

Every user of the IngSoft InterWatt system needs a valid e-mail address, to which the system e.g. sends a link to set up a personal password.

2. Permanent Internet or intranet connection during use

For customers who use IngSoft InterWatt as a solution hosted by IngSoft: For communication with the server, a constant Internet connection is required while using the client software. required (exception: some functions of the apps can also be used offline).

If a customer operates its own IngSoft InterWatt server and this server makes its services available on an intranet, the clients need instead of the Internet connection a connection to this intranet.

3. Communication via https

Communication with the IngSoft InterWatt server is based on the https protocol (port 443), with a minimum of TLS 1.2. If the licensee operates its own IngSoft InterWatt server on the intranet, it can also be configured for unencrypted transmission (http protocol, port 80), but this is not recommended.

4. PDF-Reader

IngSoft InterWatt generates most reports either as PDF files or as Microsoft Word documents. To view PDF files, the latest version (or the immediate predecessor) of Adobe Acrobat Reader or an equivalent software is required.

5. Microsoft Word

IngSoft InterWatt generates most reports either as PDF files or as Microsoft Word documents (*.docx). Microsoft Word or a compatible program is required to view and process Word files.

6. Spreadsheet calculation software

IngSoft InterWatt can also generate results in the format of CSV files. For display and further processing, the use of a spreadsheet program such as Microsoft Excel is recommended.

§ 4 System Requirements EnergieMonitor

"EnergieMonitor" refers to the web interface to IngSoft InterWatt, which can be run on all devices with a current browser with HTML5 support, regardless of the operating system of the client.

1. Supported browsers

Due to differences in the implementation of Internet standards in the different browsers, different representations in the different browsers do not constitute a shortcoming.

The browser versions marked with (*) below are the primary supported browsers for which the display is optimized at a minimum screen resolution of 1920px x 1080px. With other browsers, deviations in the display (including other breaks, additional scroll bars, etc.) appear.

Browser	Version	Limitations / Notes
Google Chrome (*)	Current version + predecessor	No restrictions
Microsoft Edge (*)	Current version + predecessor	No restrictions
Mozilla Firefox (*)	Current version + predecessor	No restrictions
Safari (MacOS)	Current version + predecessor	No restrictions

2. Necessary browser settings

IngSoft InterWatt requires JavaScript and cookies enabled.

3. Network requirements

The use of the WebSocket protocol (according to RFC 6455 specification) must be possible.

4. Communication with external services

When the use of geographic navigation is enabled, the client software loads map data directly from Google.

§ 5 System requirements for the app for devices with Android operating system

1. Requirements

Assuming Android version 10.0, if the OCR function is to be used to detect counter readings, an integrated camera is required.

2. Communication with external services

The app is distributed and updated via Google's app store, so appropriate access must be possible.

Anonymised usage data and error reports are sent by the app to sentry.io, where they are used by IngSoft for error analysis. The device ID and information about the functions accessed within the app are transmitted, but not the user ID or IP address.

§ 6 System requirements for the app for devices with iOS operating systems

1. Requirements

iOS version 15.5 or higher is required.

2. Communication with external services

The app is distributed and updated via Apple's app store, so access must be possible.

Anonymised usage data and error reports are sent by the app to sentry.io, where they are used by IngSoft for error analysis. The device ID and information about the functions accessed within the app are transmitted, but not the user ID or IP address.

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