

IPThermo for Windows

Climate monitoring software

Dear Customer,

Thank You for Choosing IPThermo! Let us provide you in the following pages with some essential information about the installation of our software and hardware. Feel free to contact us if you experience any problems in the installation process.

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Installation

Launch „IPThermo Setup.exe” from the provided installation CD. To use IPThermo’s database capabilities it is recommended to install it on the database server host as a Windows service (check „Install as Windows service” option on the last panel of the installation program). Start IPThermo. IPThermo uses its INI file to store the default database connection properties. The included and installed INI contains all the necessary information for IPThermo to start and set up correctly using the IPTHERMO.MDB file in its install directory as the default database connection. (Note: The provided INI contains the full path to the MDB file. It is

`C:\Program Files\Procontrol\IPThermo\IPThermo.mdb`

by default, so if you install IPThermo in a different directory, you will need to change this path to be able to start IPThermo with the provided default connection automatically.)

Interface and sensor settings were also set up to the hardware of yours. Please study the interface and sensor properties panel to get familiar with the corresponding parameters. You can change the default database connection by closing the active connection and defining a new one. The recommended use of IPThermo is to connect it to a MS SQL Server. Please read the following chapter to come to know why.

Data source types

Data source means a local or remote database connection. Depending on the used database connection IPThermo can be run in three modes:

a) No database connection. IPThermo will run without a database connection if you don’t provide default connection properties in its INI. Connection properties are stored in the [CONNECTION] section. You can safely clear them using a text editor or you can simply delete the whole INI file. Without a database connection IPThermo won’t record measure data thus you cannot chart or export past values. In this mode IPThermo functions only as a monitoring tool with very limited capabilities. Furthermore, in this mode monitoring is only possible on that very host IPThermo is running, because sensors cannot connect to several hosts at the same time.

b) Local database connection using a Microsoft Access database (files with .MDB extension). This is the mode IPThermo starts after installation. In this mode IPThermo uses the file IPTHERMO.MDB in its install directory for recording measure data. Though all database functionality is available in this mode, new, empty databases cannot be created, and the use of IPThermo is also bound to only one host.

c) Connecting to a Microsoft SQL database server. This is the recommended use of IPThermo. Using a server connection lets you having an all-time running IPThermo application for recording and alarming tasks, besides, you can also launch IPThermo applications on any other host of your

local network to monitor current measure results, or review or export past measure data. Recording IPThermo (called IPThermo *server*) usually operates silently as a service on the server host. Monitoring IPThermo applications (called *clients*) retrieve data from the central database so they don't need to connect to sensors directly. On monitoring clients it is not possible to change important sensor parameters or system properties so they are safe from arbitrary alterations. The host that is authorized to have run a recording IPThermo on it is identified by its IP – this ensures that only one application is allowed to write in the database at the same time. IP is registered when you first connect to the database, but it can be changed later on the global settings panel of the recording application. (You can also clear the corresponding field manually using MS Enterprise Manager or any other database tool.)

In this mode you can (and first time you will also *have to*) create a new, empty database for measure data on the SQL server. IPThermo can do it for, you can find this function on the connection properties panel. If you like, you can choose *encyphered data storing* for the database. Measure data in encyphered databases is encrypted using high security algorithms, so one cannot make any use of it without IPThermo. However, you do not need to provide the database password to connect to an encyphered database with IPThermo, so password is not intended for authorization, it is only to protect measure data from illegal or inadequate use. The specified database password cannot be changed later and encyphered databases cannot be converted to plain databases.

Interface and sensor properties

Interface and sensor properties are set up to meet the parameters of the hardware of yours in the provided MDB database.

IP of the IPThermo 120 interfaces can be changed by the provided *DS Manager* tool. Please read DS Manager's documentation for details.

PCS addresses of the provided sensors are enlabeled on them. PCS addresses do not need to be changed. Sensors can be chained in any order.

Caution: Please do not plug or unplug sensors, while their interface is under power!

The *sampling rate* of sensors (means the interval they are requested to provide measure data) is set on their interface's panel, it cannot be specified separately. However, you can set different *recording intervals* for every sensor.

Global settings

The most important parameter here is the IP of the host that is authorized to have run a recording IPThermo application on it. Please read the paragraph on data sources for details.

If you need to use alarms, you also have to set up the mail server parameters here.

We hope you will find our product useful and be satisfied with it. Best regards,

PROCONTROL ELECTRONICS LTD.