				ВЕКО	(3 Mustermann Max	EN 🕶
	Companies	企 Das	hboard / Companies				
Ð	Data Import	Searci	۱]
۵	Project Import	٩					
Tr	Fault Description DB		Companies	Buildings	Projects		
	Database		BEKO TECHNOLOGIES	1	2	ľ	0
Ō	Recycle Bin		Kromer WKA	1	1	1*	0
					DELETE	+ NEW	

Operation manual

Software Leak Management V2

EN

Table of contents

1. Preface	4
2.1 About this document	
3. General function description	4
4. System requirements	5
5. Installation / application	5
 6. Operation 6.1 Application start. 6.2 Importing the database 6.3 Editing the user profile 6.4 Leakages data import. 	5 6 6
 7. Company management. 7.1 Displaying the company	10 10 11 11 12 13
 8. Project import 8.1 Project report 8.2 Project import 	18
9. CID data transfer	19
10. Recycle bin	20
11. Database	21
12. Notes	22

1. Preface

Dear customer,

if you have a **METPOINT**[®] **CID** leak detector (hereinafter abbreviated in the text as **METPOINT**[®] **CID**), you can export the leakages from the **METPOINT**[®] **CID** and import and evaluate them with the **Leak Management V2** software.

Data transfer via USB stick makes report generation very easy. You can transfer the saved leakages to a report and easily manage and add to the data at the same time.

In addition, you can import your existing data from an older version of the **Leak Management V2** software if you have already used this software. Otherwise, these points are irrelevant for you.

Main functions:

- Managing companies / buildings / projects / measurements
 - → Completing company data
 - → Managing projects
 - → Managing measurements
- Documentation / reporting
 - → Image of the leak location
 - → Date / time
 - → Size of the leak in I/min (units adjustable)
 - → Cost of leakage per annum in € (currency freely definable)
 - → Description of the leak item specifying company / department or hall/machine
 - → Information about the leak repair (defective element, measure, spare part)
 - → Totals, priority, CO2 emissions per annum, etc.

2. Notes

2.1 About this document

- Carefully read this documentation.
- Keep this documentation within reach so that you will be able to consult it if necessary.
- Pass on this documentation to later users of the product.

3. General function description

The Leak Management V2 software is used to manage and evaluate leakage data recorded with a METPOINT[®] CID leak detector.

The data can be imported using a USB stick, and the images of the leakages from the device are automatically transferred. These can then be supplemented with your own images if required. The measurements can be described in more detail in the software and also initially specified for the project.

In the report, the desired measuring points can be evaluated and transferred to a report. There, the sum values, the leakage costs and the imputed quantities for the CO2 emissions / year are also shown.

4. System requirements

Hardware PC	Win 7 x64 / Mac and higher
Main memory requirement	Min. 4 GB RAM
Hard disk space	Min. 10 GB

5. Installation / application

Start the 'Setup.exe' to install the software and follow the installation instructions. The software is installed automatically.

6. Operation

Operation is largely self-explanatory and the software shows appropriate descriptions during the sequences and explains how the software should be operated.

You can enter information into or make changes to all fields with a white background.

Use the main menu bar to navigate:

<				ВЕКО	(3) Mustermann Max	EN 🕶
	Companies	û Das	hboard / Companies				
Ð	Data Import	Search					,
Ê	Project Import	٩					
Тт	Fault Description DB		Companies	Buildings	Projects		
	Database		BEKO TECHNOLOGIES	1	2	ľ	0
Ō	Recycle Bin		Kromer WKA	1	1	ľ	0
					DELETE	+ NEW	

6.1 Application start

The application is started with the installed shortcut (desktop).



Use the following button to select the language.



6.2 Importing the database

If you have been using an older version of the **Leak Management V2** software until now, you can import the existing database into the **Leak Management V2** software.

Please make sure that you do not unpack the database of the older software version and import the ZIP file directly.

- 1. Export database to old software version
- 2. Import database to Leak Management V2



6.3 Editing the user profile

< 🛴			K	Mustermann Max
₽	Companies	🔓 Dashboard / Profile		
€	Data Import			
Ê	Project Import	2 Profile		
Tr	Fault Description DB	Econpany BEKO TECHNOLOGIES		
	Database	Last Name		
đ	Recycla Bin	Fitzhane Max Prane +49 815 123456 Email Info@beko technologies.com Breat Im Factorial 7 Prano 60% City Neuses		3

Your own company master data must be entered into the profile.

- 1. You can access this interface by clicking on the contact
- 2. You can customise the company master data
- 3. You can enter a company logo
- 4. Save the data with the 'SAVE' button

The company name and logo are then printed on the reports accordingly.

6.4 Leakages data import

The data import takes place as a sequence:

- 1. Folder selection
- 2. XML-file selection
- 3. Selection of leakages to be imported
- 4. Target of imported leakages



To export data from the **METPOINT**[®] **CID**, use the Data Import menu item. Transfer the data there using a USB stick / USB data carrier.

Use the 'SELECT' button to start selection of the journal file.

- 1. Open the 'Journal' folder that corresponds to the path shown on the USB stick
- 2. Select folder

<			BEKO
■	Companies	ம் Dashboard / Data Import	
€	Data Import	Condex auswählen	TARGET
۵	Project Import	← -① ↑ ▲) Dieser PC > Lokaler Datenträger (C.) > DEV0004 > 30227442 > Journal > ✓ Organisieren ▼ Neuer Ordner	O Journal durchsuchen
Tr	Fault Description DB	Dokumente V Dateiordner (2)	Größe
	Database	Dewnloads BM22CW92 12:10.2022 11:58 Dateiondner Musik BM22CW41 12:10.2022 11:58 Dateiondner Videos	
Ō	Recycle Bin	Lokaler Datentra ØVmdowsW SVmREAgent 42000is Beko Angebot Benutzer 0 0227442 Journal	
		Ordner: Journal	Ordner auswishlen Abbrechen

3. Select the desired XML data file that was exported by the leak detector

<					SEKO	
₽	Companies	🟠 Dashboard / Data Import				
€	Data Import		FOLDER	XML	LEAKAGES	TARGET
ŵ	Project Import		•	•	•	•
Tr	Fault Description DB					
	Database	XML				
Ō	Recycle Bin	Select the folder that contains the XML jor folder (for example DEV0004/40187266/, choose the leakages to be imported in the C:\DEV0004\30227442\Journal\Jnl_22	Journal). You can following steps.			

After selecting the XML data file, you can filter the leakages according to their 'Company' and 'Building' or a time period that can be selected as required:

- 1. Select individual leakages
- 2. Filter by one or more companies
- 3. Filter by one or more buildings
- 4. Define start time (first leakage)
- 5. Define end time (last leakage)

< 🛴						Mustermann Max
₽	Companies	Dashboard / Data Import				
€	Data Import		FOLDER	XML LEAKAGES	TARGET	
ŵ	Project Import		•	• • •	•	
Tr	Fault Description DB					
=	Database	2	3	4	6	
Ō	Recycle Bin	Company	Building	From ▼ 11.08.2022	Until 11.10.2022	
		Company	Building Date	Time		
			A03 11.10.2022	16:57:45		

Options

- 1. For the leakages of each company to be imported (e.g. **BEKO** TECHNOLOGIES), an already existing company and/ or project can be selected as a target. The buildings corresponding to the leakages are then created in the selected company at the same time.
- 2. If the company already exists, a new project is attached to it or an existing project can be selected. The buildings corresponding to the leakages are then created in the selected company at the same time.
- 3. If the company corresponding to the data import does not yet exist, a new company with the corresponding name is created, as well as a first project. The buildings corresponding to the leakages are then created in the selected company at the same time (as shown in the screenshot).

		_			ВЕКО	
▦	Companies	🔂 Dashboard / Data Import				
Ð	Data Import		FOLDER	XML	LEAKAGES	TARGE
۵	Project Import		•	•	•	•
Tr	Fault Description DB					
	Database	BEKO TECHNO	DLOGIES			
ō	Recycle Bin	name (in green color). Select selection to create a new proje	ata. Select [Create new] in the a new company with the shown			
		Project	· ·			
		[Create new]	•			

Once you have imported all the leakages, you have the following options:

- 1. Carry out a new data import in the same way
- 2. View the project within the most recently imported data

< K				Sector Se	EKO	
₽	Companies	Dashboard / Data Import				
Ð	Data Import		FOLDER	XML	LEAKAGES	TARGET
۵	Project Import		•	•	•	•
Tr	Fault Description DB					
	Database	Data was succe	essfully			
Ō	Recycle Bin	imported.				
		Would you like to view the import additional data?	ted data or to import			
			AL IMPORT			
		2 внож	f DATA			

If the firmware used for the **METPOINT**[®] **CID** is out of date at the time of the export, an error message is displayed. The current firmware can be downloaded from the **BEKO** TECHNOLOGIES homepage.

7. Company management

The data of the imported companies can be found in the main menu under 'Companies'.

7.1 Displaying the company

- 1. Select 'Companies' in the main menu
- 2. Search for a specific company
- 3. Edit the master data of the selected data file
- 4. View the projects of the selected company
- 5. Create a new company
- 6. Delete the selected companies

< 🕵				K		② Mustermann Max EN •
	Companies 1	1	Dashboard / Companies			
Ð	Data Import]
۵	Project Import	L	~ 🕗			
Tr	Fault Description DB		Companies	Buildings	Projects	34
	Database		BEKO TECHNOLOGIES	1	2	i o
Ō	Recycle Bin		Kromer WKA	1	1	í ©
					6	6
					ELETE	+ NEW

7.2 Company master data

You can enter contact information and a company logo in the company Master Data. The information entered here is printed on the cover page of the report.

< 🕵			EEKO	Mustermann Max
	Companies	GDashboard / Companies / BEKO TECHNOLOGIES / Master Data		
Ð	Data Import	BACK TO COMPANIES		
۵	Project Import	MASTER DATA BUILDINGS PROJECTS		
Tr	Fault Description DB			
	Database	Create Company		
ō	Recycle Bin	ERKO TECHNOLOGIES Last Name First Name		
		Phone Email		<u>ها</u>
		Street		
		Number		
			DELETE	Save

7.3 Buildings

Buildings can be added or deleted under the 'BUILDINGS' tab.

- 1. To delete a building, click on the corresponding Recycle Bin
- 2. To edit a building, click on the corresponding pencil
- 3. To create a new building, enter the name accordingly
- 4. To add the building, click on the Plus sign

< 💢			Muster Magazine Magazine
	Companies	බ් වන්ඩාරයක් / Companies / BEKO TECHNOLOGIES / Buildings	
€	Data Import	BACK TO COMPANIES	
۵	Project Import	MASTER DATA BUILDINGS PROJECTS	
Tr	Fault Description DB		
I	Database		
Ô	Recycle Bin		

7.4 Companies - projects

The data already created / imported are displayed under the 'PROJECTS' tab. Each data import creates a new project here, unless an existing project was selected as the target during a data import.

- 1. By clicking the 'View' button, you call up the leakages corresponding to the project. The measurements and project master data entered are then displayed there.
- 2. You can create an empty project manually by clicking the "NEW" button.

< 🛴				BEKO		Mustern	nann Max	E
	Companies	Companies / BEKO TECHNOLO	GIES / Projects					
Ð	Data Import	BACK TO COMPANIES						
۵	Project Import	MASTER DATA BUILDINGS	PROJECTS					
Tr	Fault Description DB							
≡	Database	Project Name	Date	No. of Leakages	Total Leakage Rate			1
Ô	Recycle Bin	Datenimport 12.10.2022, 11:59	11.10.2022, 16:57 - 11.10.2022, 16:57	1	500.30 €	ß		٢
		Datenimport 1 12.10.2022, 16:01	11.10.2022, 16:57 - 11.10.2022, 16:57	1	500.30 €	Í		0
					2	+ NE	EW	

7.4.1 Editing project master data

The parameters set in the **METPOINT**[®] **CID** are initially used for each project. If these need to be changed, this can be done globally for the entire project in project master data.

The project data are defined as follows:

- Name project name (is also printed on the report)
- Description project description

Currency	National currency
Unit	Unit of volume (m ³ or cf)
Operating hours	Operating hours of the plant per year (e.g. 8760 for 24/7 operation)
Costs	Cost for 1000 m ³ or CF air in the currency to the right (calculated automatically if the 'Electricity Rate' and the 'Specific Power' have been entered in Expert Settings)
CO2 Emission	The default value of 0.527 kg/kWh is used here
Electricity Rate	Unit: Currency / kWh
Specific Power	Power
	Compressor efficiency variable in (kWh / m³ or kWh / CF)
Compressed air cost	A distinction can be made here between pure energy costs [70 %] and full costs [100 %]

Calculation basis:

If the fields 'Electricity Rate' and 'Specific Power' have been filled in the expert menu, the software automatically calculates the energy costs of the compressed air system.

Typically, these correspond to 70 % of the total costs, which consist of energy costs [70 %], investment costs [21 %] and maintenance costs [9 %].

The user has the option to choose between both types of costs. The selected cost type is then adopted globally for the whole project.

< 🕵		-			BEKO				Mustermann Max
	Companies	✿Dashboard / Companies / BEKOT	ECHNOLOGIES / Projects / Daten	import 12.10.2022 / Master Data					
Ð	Data Import	BACK TO PROJECTS							
Ê	Project Import	MASTER DATA LEAKAG	.6						
Tr	Fault Description DB								
I	Database	Edit Project							
Ō	Recycle Bin	Name Datenimport 12.10.2022, 11:59							
		Description Datenimport 12.10.2022, 11:59							
		Compressed air cost 19	Currency €	÷	/ 1000		Unit m ³	÷	
		Annual Operating Hours per year 8760							
		Expert Settings							
		CD2 Emission 0,527				Unit kg / kWh			
		Specific Power 0,12					kWh / m²		
					DELETE		▲ EXPORT		SAVE

7.4.2 Leakages overview

The 'LEAKAGES' tab shows the measurements for the selected project including the project master data, shown in the red box.

Functions of the interface:

- 1. Filter for building
- 2. Filter for leakage place
- 3. Filter for leakage status (fixed / open)
- 4. Leak tag search
- 5. Generate PDF report
- 6. Generate Excel report
- 7. Leakage status (fixed / open)
- 8. View leakage details



The columns contain, from left to right, information for each leakage with regard to its:

- Buildings
- Place
- Leak Tag
- Leakage Rate
- Cost per Year
- Status (open, fixed)

The formula for the leakage costs is as follows:

Leakage costs per annum = loss in l/min * 60min / 1000l * operating hours of the plant * costs of compressed air production for 1000 m³ in euros

= 5.95 l/min * 60 min * (1 m³/1000 l) * 8760 h/year * 25 €/1000 m³

= 78.18 € leakage costs per annum.

The 'View' button next to the respective measurement displays the measurement detail data.

The measurements can be changed in this screen. Measures in addition to comments, priority, status and who has eliminated this leak and at what time can be entered.

- 1. Delete the image
- 2. Add a saved image
- 3. Information about the location of the leak
- 4. Information about the costs of the leakage data
- 5. Information about leak repair
- 6. View previous leak
- 7. View next leak
- 8. Back to leakage overview
- 9. Move leak to another company, building or project
- 10. Copy leak to another company, building or project
- 11. Delete leak
- 12. Save changes



Project master data completed:

This illustration shows the parameters that the system uses to calculate.

When setting project master data, these are used to calculate the costs for each leak within the project.

The red marked field shows the parameters used for the leak detector. If project master data are set, these fields are greyed out and locked for editing.

If the unit of measurement is changed from [I/min] to [cfm], an automatic conversion takes place and vice versa.

Annual Operating Hours per year: 8,760 h Compressed Air Cost: 19.00 € / 1,000 m²							
Cost 19,000	Currency EURO	Ŧ	/ 1000	Unit m³	~		
Annual Operating 8760	Hours per year						
Leakage Rate 50.099			Un Itr,		Ŧ		
Cost per Year 500.308							

Project master data are empty:

Currency EURO	*	/ 1000	Unit m³	T
i Hours per year				
		ltr	/min	~
	EURO	EURO -	EURO - / 1000 Hours per year Ur Itr	EURO - / 1000 m ³

If no project data are recorded, the data can be changed in the measurement. The calculation in the formula above is done with the data from the measurement.

The buttons can be used to move, copy, delete or save a measurement.



When copying leakages, the following screen is displayed:

Company BEKO TECH	NOLOGIES	
Building [Keep curre	nt building]	
Project Keen curre	nt project]	

- 1. Company to which the leakage(s) are to be copied
- 2. [Keep current building] \rightarrow Building with the name is created if it does not already exist
- 3. [Keep current project] \rightarrow New project is created in the company with the same name if it does not already exist
- 4. Target project is displayed after the copying process

After copying, leakages selected are located in both projects accordingly.

When moving leakages, the following screen is displayed:

The fields can be filled in in the same way as for copying.

Company BEKO TECHNOLO	GIES	Ŧ
Building [Keep current buil	ding]	•
Project [Keep current proj	ect]	.
🖌 Do you want	to switch to this project?	

Before a measurement is finally deleted, this message is displayed:

Are you sure?								
This action can not be undone.								
CANCEL	ОК							

Note:

If a leakage has been accidentally deleted, it can be restored from the recycle bin.

7.4.3 Create report

- 1. A report can then be created in the measured value list for the project.
- 2. The marked or filtered leakages or all measurements are then transferred to the report.
- 3. Sorting of the leakages is taken into consideration in the report.

< 🛴							K BEKO				Mustermann Max	EN
	Companies		🔂 Dashboard / Companie	s / BEKO TECHNOLOGIES	/ Projects / Datenim;	port112.10.2022 / Leakage						
Э	Data Import		BACK TO PROJECTS									
۵	Project Import		MASTER DATA	LEAKAGES								
Tr	Fault Description DB											
≡	Database		1 Leaks selected 50.099 ltr/min total leak 500.30 € per year	agerate		Master Data Annual Operating Hours per Compressed Air Cost: 19.00 (1	PDF		⊕ XLS	
Ô	Recycle Bin					G01010300 HI G031, 19,00	, 1990 m					
			Search LeakTag									
		2	Building	Place	Ŧ	Status	From ▼ 11.10.2022		Until 11.10.2022			
		ß	Building	Place	LeakTag	Leakage Rate	Cost per Year		Status	Date		
			✓ A03	Showroom	4	50.099 ltr/min	500.30 €		φ	11.10.2022		0

Set up of the report:

- 1. Cover page (page 1):
 - The PDF report consists of a cover page with information about
 - Customer, auditor
 - Project master data
 - Results of the measurement
- 2. Leakage overview (following pages) For each leak, the following is displayed:
 - Place
 - Saving potential
 - Including troubleshooting
 - Status and priority
- 3. Overview page (final page):
 - Results of the measurement

Excel report:

This report shows essentially the same information as the PDF report.

8. Project import

In order to save or exchange data, the **Leak Management V2** has a 'Project Import' function which can be accessed via the homepage menu.

This function imports a project including all buildings and leakages saved in it. If there is already a company with the same name, an additional project is added to it.

If there is not yet a company with the same name, the corresponding company is created with the project.

8.1 Project report

< 🕵				BEKO			Mustermann Max
	Companies	🟠 Dashboard / Companies / BEKO TECHN	OLOGIES / Projects / Datenimport12.10.2022	/ Master Data			
Ð	Data Import	BACK TO PROJECTS					
۵	Project Import	MASTER DATA LEAKAGES					
Tr	Fault Description DB						
	Database	Edit Project					
Ō	Recycle Bin	Name Datenimport 12.10.2022, 11:59					
		Description Datenimport 12:10.2022, 11:59					
		Compressed air cost 19	Currency € -	/ 1000		Unit m ³	Ŧ
		Annual Operating Hours per year 8760					
		Expert Settings					
		CD2 Emission 0,527			Unit kg / kWh		
		Specific Power 0,12				kWh / m³	
				🗇 DELETE		▲ EXPORT	SAVE

You can save the project using the 'EXPORT' button. This way, data can be conveniently copied back and forth between different users.

8.2 Project import

Use the following menu to import the project.



9. CID data transfer

With the Leak Management V2 you can generate the troubleshooting database for the METPOINT[®] CID.

With each import, the **Leak Management V2** updates the database with the entries in the XML file for the leakage. In addition, you can add manual entries.

< 🕵) Mustermann Max	EN
	Companies	Cashaboard / Fault Description 08 / Measure		
Ð	Data Import	EXPORT DATA TO METPOINT CID		
۵	Project Import	MEASURE LEAKING ELEMENT REPLACEMENT		
Tr	Fault Description DE			
	Database	Add		+
ō	Recycle Bin	The set of characters is limited on the METPOINT CID. Text that is displayed in the Leak Management Software software (left column) may be displayed differently on the METPOINT Leak Management Software View METPOINT CID View (limited character act)	CID (right column).	
		Change seal Change seal	1	×

Important:

The **METPOINT**[®] **CID** can only display strings of a certain length and a limited character set. If the input is too long, the **Leak Management V2** truncates it so that it can be imported into the **METPOINT**[®] **CID**.

In the export process, you can select which data the XML file to be exported should contain:

< 属			and	Mustermann Max EN
₽	Companies	Dashboard / Data Export		
Ð	Data Import	BACK TO FAULT DESCRIPTION		
۵	Project Import		MEASURE LEAKING REFLACEMENT COMPANIES COMPLETE	
Tr	Fault Description DE			
≡	Database			
ō	Recycle Bin	Leak Management Software View	METPOINT CID View (limited oharacter set)	
		Change seal	Change seal	

The exported database has a maximum length of 1000 elements. If this size is exceeded, there is a maximum of 1000 elements in the XML file.

To import the data into the **METPOINT® CID**, save the ZIP file on the USB stick supplied and unpack it there.

Once you have inserted the USB stick into the **METPOINT**[®] **CID**, you can update the database of the **METPOINT**[®] **CID**:

- 1. **METPOINT® CID** Export/Import
- 2. Import: Database
- 3. Select XML-file in the Customers folder
- 4. Define areas

10. Recycle bin

Deleted objects are temporarily stored in the recycle bin. This applies to:

- Companies
- Buildings
- Projects
- Leakage

If an object has been deleted by mistake, it can be restored by clicking on the 'Restore' button. A random number combination is appended to the original file name in the recycle bin so that there can be no collision with existing data when restoring. This name can be adapted afterwards as required.

< 🕵			BERG		Ø Mustermann	1 Max
Ē	Companies	🔂 Dashboard / Recycle Bin				
Ð	Data Import					
Ê	Project Import	Recycle Bin	Companies (1)			
Tr	Fault Description DB	🚖 Companies 🗎 Buildings 📋 Projects	Name	Date		
	Database	🖨 Leakages	BEKO TECHNOLOGIES	12.10.2022	Ð	Ī
Ō	Recycle Bin					

If 'Empty Recycle Bin' is clicked, the entire recycle bin is deleted, but individual items in the categories (companies, buildings, projects and leakages) can also be deleted.

11. Database

It is recommended to perform regular backups and to save them on different storage media.

<			BERG	③ Mustermann Max
	Companies	😭 Deshboard / Database		
	Data Import			
۵	Project Import	Import	Export	Clear
Tr	Fault Description DB	Click on "Select" to import or restore a saved database (Leak Management Software V1 or V2). Please make sure not to	Click on "Generate File" to create a backup of the database. This generated file can be used in import to restore the current	Click "Clear Data" to delete all data within the Leak Management Software. Warning: this action cannot be
	Database	unpack the exported database so that you use the exported .ZIP file. The existing database will be cleared. Warning: this action cannot be undone.	data.	undone!
Ô	Recycle Bin	accon carnot be uncone.		
		Generate file	GENERATE FILE	🖎 CLEAR DATA

- 1. You can use 'Import' to restore the previously exported data status of the **Leak Management** software. To do this, import the database (ZIP file) that has not yet been unpacked.
- 2. You can use 'Export' to create a backup file that saves the current information status of the Leak Management V2 software.
- 3. You can delete all data within the Leak Management V2 software using 'Clear'.

Important:

Please make sure that you do not unpack the database of the older version of the **Leak Management V2** software and import the ZIP file directly into the **Leak Management V2**.

12. Notes

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