

Refresh ID 0 - MTC/STC found					R	eport Error Codes	View Error Code Ta	able
Slot 1: No Dev	vice		Slot 2: Therm	loshake		Slot 3: No	Device	
Target Temperature:	700 1/10°C	Set	Target Temperature:	750 1/10°C	Set	Target Temperature:	700 1/10°C	Set
Current Temperature:	284 °C	On	Current Temperature:	21,8 °C	On	Current Temperature:	298 °C	On
Shake rotations:	1600 rpm	Set	Shake rotations:	3100 rpm	Set	Shake rotations:	3100 rpm	Set
Shaking:		On	Shaking:		On	Shaking:		On
Message: No Error			Message: RPM shaker	out of range Error		Message: No Error		
Slot 4: CPAC			Slot 5: No De	vice		Slot 6: The	ermoshake AC	
Target Temperature:	700 1/10°C	Set	Target Temperature:	700 1/10°C	Set	Target Temperature:	370 1/10°C	Set
Current Temperature:	22,1 °C	On	Current Temperature:	299 °C	On	Current Temperature:	21,9 °C	On
Shake rotations:	N/A rpm		Shake rotations:	0 rpm	Set	Shake rotations:	1000 rpm	Set
Shaking:			Shaking:		On	Shaking:		On
						Close Clamps		
Message: No Error			Message: No Error			Message: No Error		
Please uncheck "Refresh" during us	age of arbitrary commands		nothing mod					
Refresh			fioring read	1				
Command			Clear Text	Save Text				
0RFV1 -			No Error				Versie	on 2.04
	No Error NoteCoom						<u>00.00</u>	

INHECO Demo Tool for MTC / STC

For Demo Tool Version: 2.0.4 and higher

► User's Manual

Doc ID: 900093-001 June 2019 **INHECO Industrial Heating and Cooling GmbH** reserves the right to modify their products for quality improvement. Please note that such modifications may not be documented in this manual.

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1 IMPORTANT NOTES

1.1. General Information

Read the user instructions completely. The instructions for use explain the intended use of the Demo Tool Software for all MTC/STC connected devices, e.g. Thermoshake, Thermoshake AC, CPAC UltraFlat / CPAC Microplate, CPAC UltraFlat / CPAC Microplate HT 2-Tec, HeatPAC, Teleshake 95, Teleshake MTC / STC, Heated Lid. In case the instructions of this manual are disregarded, injury or product damage cannot be excluded.

Missing or insufficient knowledge of the manual leads to loss of liability against INHECO GmbH.

The content of this manual is also part of the TEC Control Unit Manual which is delivered together with the Multi TEC Control Unit (MTC) and the Single TEC Control Unit (STC) and can also be downloaded from our webpage.

The Demo Tool meets the acknowledged rules of software development and comply with today's standards.

- The signal word NOTE stands for the general precautionary measures that are to be observed to avoid damaging the device when using it.

Please contact the manufacturer in case there is anything you do not understand within this manual.

Your opinion about this manual provides us with valuable insights on how we can serve you better. Please do not hesitate to direct your comments to us:

Fraunhoferstr. 11
82152 Martinsried
Germany
+49 89 - 899593 - 120
+49 89 - 899593 - 121
+49 89 - 899593 - 149
sales@inheco.com
techhotline@inheco.com
www.inheco.com

1.2. How to contact INHECO

1.3. Explanation of symbols

Symbol	Explanation
	Potential danger of injury or death. \rightarrow signal words WARNING and CAUTION indicate the severity
STOP	Note: Device will get damaged, if you do not follow instructions
•	Bullet points indicate steps of instructions.
-	Hyphens are used for enumerations.
\rightarrow	Arrows indicate: "refer to" and are mostly an active link
blue writing	indicates a software button

2 PRODUCT DESCRIPTION

2.1. Intended Use

The INHECO Demo Tool software is mainly designed to check the main functions of the MTC/STC connected devices. It also allows to send single commands.

The following devices are controlled via the TEC Control Unit (MTC/STC):

Product	INHECO Part#	Function
CPAC UltraFlat / CPAC Microplate	7000190 / 7000179	heat and cool
CPAC UltraFlat / CPAC Microplate HT 2-TEC	7000166 / 7000163	heat and cool
HeatPAC	7900046	heat
Teleshake 95	7100136	heat and shake
Teleshake MTC / STC	7100137	shake
Thermoshake / Thermoshake RM	7100146 / 7100144	heat / shake and cool
Heated Lid	8900033	heat
Thermoshake AC	7100160	heat / shake and cool
		with clamp mechanism

Usually the INHECO devices are integrated in workstations and are controlled by their software. Therefore the Demo Tool only provides very basic functions and the possibility to send firmware commands to the devices.

3 SOFTWARE INSTALLATION

This section describes the installation of the INHECO Demo Tool MTC/STC software.

Please follow the instructions in the given order. Ignoring the correct order may cause complications during installation.

3.1. System Requirement

- Operating system: Windows XP, Windows Vista, Windows 7 or Windows 10
- Free USB port (USB 1.1 or 2.0)
- Minimal display resolution: 800 x 600 pixel

NOTE

The USB is not optimized for secure real time data transfer. Therefore all communication is secured by a cyclic redundancy checksum (crc). If the communication between the PC and the connected devices fail the PC might be the cause for the communication failure. For a stable communication we recommend the following:

- Other devices connected to the USB-Port of your PC might have an influence on the communication stability of the connected devices
- Check the stability of communication with a different PC
- Windows updates might cause comunication failures.

3.2. Start Software

3.2.1. Operate the connected Devices via TEC Control Unit & Demo Tool

The Demo Tool (file name INHECO MTC/STC Demotool) and the DLL are stored on the USB stick which comes with each TEC Control Unit or can be downloaded from our login section on the webpage www.inheco.com.

• Copy the demotool MTC file and the DLL into same folder on your PC.

NOTE

The software will only start if software and DLL are in the same folder. Otherwise the Demo Tool will not work. You will receive a message: "MTC/STC test has stopped working". In some operating systems this message disappears very fast.

- Make sure that the device is connected to the TEC Control Unit and that the TEC Control Unit is connected to the PC.
- Switch TEC Control Unit power on.
- Open the software by double-clicking on data file INHECOsMTC.exe.

4 DAILY USAGE

4.1. Get Started

- Switch TEC Control Unit power on.
- · Open the software by double-clicking on the data file INHECOsMTC.exe.

In case the following message pops up please check whether the Demo Tool is already running.

	Σ	3 AM	Text Do PDFPlus			
Can not ope	en logfile					
	ОК					
	Can not ope	Can not open logfile OK				

Fig.1: Error message if software is already running

Refresh ID 0 • MTC/STC found					R	eport Error Codes	View Error Code 1	able	
Slot 1: No Dev	ice		Slot 2: Thern	noshake			Slot 3: No D	evice	
Target Temperature:	700 1/10)°C Set	Target Temperature:	750	1/10°C	Set	Target Temperature:	700 1/10°C	Set
Current Temperature:	284 °C	On	Current Temperature:	21,8	°C	On	Current Temperature:	298 °C	On
Shake rotations:	1600 rpm	Set	Shake rotations:	3100	rpm	Set	Shake rotations:	3100 rpm	Set
Shaking:		On	Shaking:			On	Shaking:		On
							1997 -		
Message: No Error			Message: RPM shake	r out of ran	ge Error		Message: No Error		
Slot 4: CPAC			Slot 5: No De	evice			Slot 6: Ther	moshake AC	
Target Temperature:	700 1/10)°C Set	Target Temperature:	700	1/10°C	Set	Target Temperature:	370 1/10°C	Set
Current Temperature:	22,1 °C	On	Current Temperature:	299	°C	On	Current Temperature:	21,9 °C	On
Shake rotations:	N/A rpm		Shake rotations:	0	rpm	Set	Shake rotations:	1000 rpm	Set
Shaking:			Shaking:		Γ	On	Shaking:		On
							Close Clamps		
Message: No Error			Message: No Error				Message: No Error		
Please uncheck "Refresh" during usa	ge of arbitrary comma	nds							
Refresh			nothing read						
Send Command			Clear Text	Save T	ext				
0RFV1 -			No Error					Vers	ion 2.04 ECO.com

Fig.2: Demo Tool Interface before MTC or STC is found

• Select Find MTC.

NOTE

When the TEC Control Unit is connected via USB to a PC, the TEC Control Unit will log on as human interface device (HID).

 Approximately two seconds later the software scans all com ports and displays the connected TEC Control Unit and the connected devices. The standard ID of the TEC Control Unit is 0. However it can be changed with the help of the dip switch on the TEC Control Unit back side. When TEC Control Unit is not found please check dip switch position and change the ID in the software accordingly.

Refresh	ID 0 -	MTC/	STC foun	d		R	eport Error Codes	View Error Code	Table
Slot 1: No Dev	ice			Slot 2: Therm	oshake		Slot 3: No	Device	
Target Temperature:	700	1/10°C	Set	Target Temperature:	750 1/10°C	Set	Target Temperature:	700 1/10°C	Set
Current Temperature:	284	°C	On	Current Temperature:	21,8 °C	On	Current Temperature:	298 °C	On
Shake rotations:	1600	rpm	Set	Shake rotations:	3100 rpm	Set	Shake rotations:	3100 rpm	Set
Shaking:			On	Shaking:		On	Shaking:		On
Message: No Error				Message: RPM shaker	out of range Error		Message. No Error		
Slot 4: CPAC				Slot 5: No De	vice		Slot 6: The	rmoshake AC	
Target Temperature:	700	1/10°C	Set	Target Temperature:	700 1/10°C	Set	Target Temperature:	370 1/10°C	Set
Current Temperature:	22,1	°C	On	Current Temperature:	299 °C	On	Current Temperature:	21,9 °C	On
Shake rotations:	N/A	rpm		Shake rotations:	0 rpm	Set	Shake rotations:	1000 rpm	Set
Shaking:				Shaking:		On	Shaking:		On
							Close Clamps		
Message: No Error				Message: No Error			Message: No Error		
Please uncheck "Refresh" during us	ige of arbitrary (commands		, and bins mad					
Refresh				notning read					
Command				Clear Text	Save Text				
OREV1									

Fig.3: Interface when TEC Control Unit & connected device have been found

Each connected device is now assigned to the appropriate slot, the background changes to blue. Devices will not heat/cool or shake without activating the button On. During heating/cooling/shaking the button shows Off.

4.2. Interface Description

Refresh	D 0 - M	TC/STC four	d		R	eport Error Codes	View Error Code Table
Slot 1: No Devic	e		Slot 2: Therm	noshake		Slot 3: No	Device
Target Temperature.	700 1/10	°C Set	Target Temperature:	750 1/10°C	Set	Target Temperature:	700 1/10°C Set
Current Temperature:	284 °C	On	Current Temperature:	21,8 °C	On	Current Temperature:	298 °C On
Shake rotations:	1600 rpm	Set	Shake rotations:	3100 rpm	Set	Shake rotations:	3100 rpm Set
Shaking:		On	Shaking:		On	Shaking:	On
Message: No Error			Message: RPM shaker	out of range Error		Message: No Error	
Slot 4: CPAC			Slot 5: No De	vice		Slot 6: The	rmoshake AC
Target Temperature:	700 1/10	°C Set	Target Temperature:	700 1/10°C	Set	Target Temperature:	370 1/10°C Set
Current Temperature:	22,1 °C	On	Current Temperature:	299 °C	On	Current Temperature:	21,9 °C On
Shake rotations:	N/A rpm		Shake rotations:	0 rpm	Set	Shake rotations:	1000 rpm Set
Shaking:			Shaking:		On	Shaking:	On
						Close Clamps	
Message: No Error			Message: No Error			Message: No Error	
Please uncheck "Refresh" during usage	of arbitrary comman	ds	nothing read				
Send							
Command			Clear Text	Save Text			
0RFV1			No Error				Version 2.01

Fig.4: User Interface

Find MTC	Searches for connteced TEC Control Unit
Report Error Codes	Opens additional window listing the incidences (& history) of error
	codes
View Error Code Table	Opens an additional window in which all possible error codes are
	displayed
Set Target Temperature	Example: enter 370 and click on Set for 37°C
for device	
Current temperature On	Device starts heating or cooling after clicking the button On. While
	heating the button shows Off
Set Shake Rotations	Enter the target rotation in rpm
Shaking On	Device starts shaking after clicking on the button On. While shaking
	the button shows Off
Close Clamps	Allows to close the clamps for transporation without starting the sha-
	king routine. If this button was used to close the clamps start shaking
	button does not work. The clamping mechnism needs to be opened
	with this button first.
Refresh	When this box is activated, the values of the current temperature for
	all connected devices is updated in intervals. Please deactivate the
	checkbox if you send commands to the TEC Control Unit (see below).
Send Command	You can also send single commands to the TEC Control Unit with the
	Demo Tool by using the Send Command button. Enter your com-
	mand (Consult the Firmware Command Set MTC) into the command
	field and send command
Reply Window	Displays command answer
Clear Text	Erases text from reply window
Save Text	Allows to save the answers from the replay window as a .txt file.

4.3. Benefits & Examples of Device Control

The INHECO Demo Tool software allows to operate devices with basic temperature and shaking settings. You can also generate error code reports for the evaluation of malfunctions. If you have a Thermoshake connected to your controller, you can also check the cooling liquid level and refill requirements with the Demo Tool.

4.3.1. Temperature setting

- Enter your desired temperature, e.g. enter 700 if your target temperature is 70°C → table below.
- · Select Current Temperature On. The button will change to status Off.

Target Temperatur	e: 700 1 10°C	Set
Current Temperatu	ure: 19,7 °C	On
Shake rotations:	100 rpm	Set
Shaking:		On

Fig.5: Temperature setting

Device	Minimum temperature	Maximum temperature
CPAC UltraFlat / Mírcoplate	40 (= 4°C)	700 (= 70°C)
CPAC UltraFlat /Microplate HT 2TEC	40 (= 4° C)	1100 (= 110°C)
HeatPAC	N/A	1350 (= 135°C)
Teleshake 95	N/A	1250 (= 125°C)
Thermoshake & Thermoshake AC	20 (= 2°C)	700(= 70°C)
Heated Lid	N/A	1350 (= 135°C)

• To stop heating/cooling select Off.

4.3.2. Shaking setting

- Enter your desired amplitude in rpm → table below.
- Select Shaking On. The button will change to status Off.

Slot 1: Thermoshake)
Target Temperature: 700 1/10°C	Set
Current Temperature: 19,7 °C	On
Shake rotations: 100 rpm	Set
Shaking:	On

Fig.6: Shaking setting

Device	Minimum rotation	Maximum rotation
Thermoshake	60	2000
Teleshake 95	60	2000
Teleshake MTC / STC	60	2000
Thermoshake AC	200	3000

• To stop shaking select Off.

4.3.3. Mainboard and Slot Message

The interface displays messages for each Slot Module or connected device related to error bytes. An example is the message regarding the Thermoshake in Fig. 7 below. The Shaker needs a refill of the cooling liquid and must not be used until its reservoir is refilled.

Furthermore the interface displays related messages below the the button Clear Text which are related to error bytes generated by a command.

INHECO MTC/STC Demo Program	The second se					
Refresh ID ID <t< th=""></t<>						
Slot 1: No Slot Module	Slot 1: No Slot Module Slot 2: No Device Slot 3: Thermoshake					
Target Temperature: N/A 1/10°	C Target Temperature: 24 1/10°C Set	Target Temperature: 450 1/10°C Set				
Current Temperature: N/A °C	Current Temperature: NN °C On	Current Temperature: 44,1 °C On				
Shake rotations: N/A rpm	Shake rotations: 1000 rpm Set	Shake rotations: 999 rpm Set				
Shaking:	Shaking: On	Shaking: On				
Message: Error Message Slot 1	ssage: Error Message Slot 1 Message: No Error Message: Refill reservoir or stop operatio					

Fig.7: Slot message

☑ Refresh	nothing read
Send Command	Clear Text Save Text
RFV1	Voltage power supply NOK Error

Fig.8: Error byte related message

4.3.4. Send Firmware Commands to devices

Consult the firmware command set of the TEC Control Unit for the description of the commands.

ease uncheck "Refresh" during usage of arbitrary commands	-		
✓ Refresh	nothing read		
Send Command	Clear Text	Save Text	
RFV1	No Error		Version 2.04 INHECO.com

Fig.9: Command section of User Interface

- Uncheck the Refresh Box.
- · Enter your command into the command field.

NOTE

The command field below the Send Command button shows either the default command 0RFV1 or the last command you have entered.

Example of a command: 3rrs (3 = Number of Slot)

Please uncheck "Refresh" during usage of arbitrary commands	3ms01	
Send Command	Clear Text Save Text	
3rrs 🔽	No Error	INHECO.com

Fig.10: Command section after overwrite

Select Send Command.

Please uncheck "Refresh" du	aring usage of arbitrary commands 3rrs 3rrs01	3ms01	
Send Command		Clear Text Save Text	
3rrs 🔹		No Error	INHECO.com

Fig.11: Command section after sending a command with reply (in our example: 3rrs01)

NOTE

Never use a space within a command!

The answer is displayed in the reply message window next to the Send Command (refer to Fig 11. above).

possible Answer (x = slotID)	Description
xrrsYS	x = Slot ID or Mainboard number depending on what you have send
	digit 2-4 = command
	digit 5 (here Y) = reply message byte from the error code table
	digit 6 = the requested parameter
xrrsA	correct command but I am busy with an action command or startup.
	Refresh MTC and resend command

In our example the answer is 3rrs01

digit 1 = Slot ID number = 3

digit 2-4 = command = rrs

digit 5 = reply message byte from the error code table = 0

digit 6 = the requested parameter = 1

Position 6 is the requested parameter which ist describedd in the device's manual or in the Firmware Command Set:

RRS		
Response	Range	Description
	0	Reservoir is below 1/3 (please refill reservoir)
	1	Reservoir is at least 1/3 full
Error	(5) Invalid operand	

Fig.12: Section RRS within the FWCS: Range is in this case the requested parameter

To save the answer of several command please use Save Text

Refresh	, ,	6rsr00038	
Send Command		Clear Text	Save Text
6RSR •		No Error	

Fig.13: Save answers from the reply message window as txt file

The following window will open:

Masmec ^	Name	Date modified	Туре	Size
MGI	InhecoMTCdll.dll	05.03.2019 16:56	Application extens	22 K
Notebooks	TinhecosMTC.exe	26.03.2019 14:07	Application	324 K
OVT Software	logfile_HIDTT119.txt	29.04.2019 12:08	Text Document	0 K
Roche	tableErrorCodesMTC.pdf	26.03.2019 14:08	Adobe Acrobat D	165 K
WINDOWS				
This PC				
3D Objects				
Archive (veeam)				
Desktop				
- · · · · ·	<			
F11				

Fig.14: Save answers from the reply message window as txt file

- Enter file name and save, e.g. to send the answers to techhotline.
- Open the xxxx.txt file (xxx = your own chosen file name).

📃 com	mand list.txt - Notepad		×
File Edi	it Format View Help		
6RSR	6rsr00000		~
6RSR	6rsr00000		
6RSR	6rsr00795		
6RSR	6rsr00807		
6RSR	6rsr00500		
6RSR	6rsr00448		
6RSR	6rsr00495		
6RSR	6rsr00400		
6RSR	6rsr00400		
6RSR	6rsr00400		

4.3.5. Evaluation of Malfunctions

The Demo Tool allows you to generate the Error Code Report which helps you or INHECO for the first evaluation of malfunctions.

Select button Report Error Codes

The following window will open to save the error codes:

Masmec /	Name	Date modified	Туре	Size
MGI	InhecoMTCdll.dll	05.03.2019 16:56	Application extens	22 KB
Notebooks	TinhecosMTC.exe	26.03.2019 14:07	Application	324 KE
OVT Software	logfile_HIDTT119.txt	29.04.2019 12:08	Text Document	0 KE
Roche	A tableErrorCodesMTC.pdf	26.03.2019 14:08	Adobe Acrobat D	165 KB
WINDOWS				
This PC				
3D Objects				
Archive (veeam)				
Desktop				
· · · ·	· <			
File name:				~
Save as type: All f	ïles (*.*)			~

Fig.16: Save the error code report txt file

The file will be saved and in parrallel the Error Codes will be displayed

Report Error Codes MTC/STC			×
Mainboard Serial Number: 003470; Run time: 0 days 5 hours 49 minutes 42 seconds.; Firmware version: MTC_MB_V2.78, 05/18Error Codes : Details of Error: 26: CRC Error Flash Memory: No. of occurrences: 009, last at run time: 0 days 5 hours 37 minutes 23 seconds.	26		_
Slot: 1 serial number: 012866; Run time slot: 14 days 15 hours 45 minutes 43 seconds. Firmware version: MTC_SlotTS2.53_06/16 Error codes: 03			
Details of Error: 03: RPM shaker too high: No. of occurrences: 043; last at run time: 14 days 13 hours 3 minutes 36 seconds.			
Slot. 2 serial number: 012867; Run time slot: 14 days 15 hours 45 minutes 44 seconds. Firmware version: MTC_SlotT82.53_06/16 Article number device: 7100146; Serial number device: 002932; Run time device: 0 days 4 hours 30 minutes Error codes: 03 Details of Error: 03: RPM shaker too high: No. of occurrences: 255; last at run time: 14 days 14 hours 5 minutes 23 seconds.			
Slot: 3 serial number: 003895; Run time slot: 14 days 15 hours 45 minutes 45 seconds. Firmware version: MTC_SlotTS2.53_06/16 Error codes: none			
Slot: 4 serial number: 003894; Run time slot: 14 days 15 hours 45 minutes 46 seconds. Firmware version: MTC_SlotT82.53_06/16 Article number device: 7000190; Serial number device: 002343; Run time device: 0 days 16 hours 50 minutes Error codes: none			
Slot: 5 serial number: 012196; Run time slot: 0 days 5 hours 12 minutes 43 seconds. Firmware version: MTC_SlotTS2.65_09/17 Error codes: none			
Slot. 6 serial number. 012197. Run time slot: 14 days 15 hours 15 minutes 48 seconds. Firmware version: MTC_SlotTS2.78_05/18 Article number device: 7100160, Number of Servo Activations: 00000353; Shaker Runtime in Minutes: 000000105; Serial number device: 0005 device: 0 days 2 hours 30 minutes Error codes: none	37; Run	time	

Fig.17: Error code report window

Mainboard errors are TEC Control Unit errors or slot installation errors.

Mainboard Report Section	Description
Mainboard serial no.	Mainboard's serial no. equals TEC Control Unit's serial no
Total Run time	Maninboard's accumulated time of operation
Mainboard firmware version	Mainboards firmware version
Error Codes	Mainboards errors and / or slot module installation errors
Details of error	Detailed error description,
	Type of error (severness),
	NR (number of occurences), Maximum # of occurences = 255
	Error happened last at run time

Slot errors are errors of the slot modules or of the connected devices.

Slot Module Report Section	Description
Slot Module serial no.	Slot module's serial number
Run time	Device's accumulated time of operation
Device type	
Slot Module firmware version	Slot module's firmware version

Slot Module Report Section	Description
Error Codes	Slot modules'errors and/or device's errors*
Details of error	Detailed error description,
	Type of error (severness),
	NR (number of occurences), Maximum # of occurences = 255
	Error happened last at run time
	NR (number of occurences), Maximum # of occurences = 255 Error happened last at run time

NOTE

The Slot Module Report shows the history of each error reported from all devices connected to this slot since its installation. Errors may be reported which are not related to the currently connected device.

You can receive more information on the error codes if you select Error Code Table

General descriptions of errors are displayed

The following Codes are shown in the MTC/STC Display and in the Error Code log files. These error codes can be read out with the Demotool using the button report error codes' or with the command OREC which reports the Error Code of the Mainboard (please refer to Firmware Command Set to learn more about using the commands). Up to 7 errors can be stored into the error memory.

When you use the button "report error codes" following window will open.



Fig.18: Screenshot of error code table

NOTE

If your Demo Tool version does not have the Error Code Table. You can download a new version from the login area at *www.inheco.com*.

• Evaluate the malfunction of your set-up on the basis of your individual Error Code Report and the general descriptions of errors in the Error Code Table.

NOTE

If the last occurence of an error happened clearly before the overall runtime the error has no meaning, e.g. in fig 16: Slot 1 had error 05 at runtime 9 days and the total Run time is 15 days. The error did not occur for the last 6 days of operation thus error 05 can be ignored.

In case you are unsecure about the meaning of particular errors or about the remedy of the malfunction you can send a screenshot of your error code report to *techhotline@ inheco.com*. Please add a detailed description of the malfunction (i.e. why are you sending us the error report) in your own words.