

44 ซอยบรมราชชนนี 70 ถนนบรมราชชนนี แขวงศาลาธรรมสพน์ เขตทวีวัฒนา กรุงเทพฯ 10170 โทร: 02-888-3472 โทร: ออกแบบ:08-08-170-170 แฟกซ์: 02-888-3258 https://www.add-furnace.com E-mail: sales@add-furnace.com





## Description **DUNGS** VisionBox

#### Application

The Vision Box allours the setting of the parameter values of DUNGS control devices via PC, Laptop or Tablet PC (from WIN 10, with USB connection).

Suitable for: MPA 4xxx MPA 51xx VPM **W-FM25** 

Suitable operating systems: WIN XP, 7, 8, 8.1, 10

Note: Passwords are required to install the software and for parameterization of the systems. Please contact your DUNGS sales representative for the passwords your require.

## 2. Warnings

#### 2.1 General warnings



The recognised occupational safety rules and accident prevention regulations must be observed and, if necessary, personal protective measures must betaken.

All adjustments and settings should

nected machines.

only be performed in accordance with

the instruction manuals of the con-



Protection from environmental impacts and weather conditions (corrosion, rain, snow, icing, humidity (e.g. by condensation), mould, UV radiation, harmful insects, poisonous, corrosive solutions/liquids (e.g. cutting and cooling fluids), must be guaranteed. Depending on the installation site, it may be necessary to take protective measures.



Never carry out work as long as gas pressure or voltage is applied. Avoid open fire. Please observe public regulations.



The device may only be operated in compliance with the operating conditions stated on the type plate.



Prior to assembly, the device must be inspected for transport damage.



The device must be protected from vibrations and mechanical impacts.



The device must not be exposed to open fire. Protection against lightning strikes must be guaranteed.



The device must not be used in areas with increased seismic risk

Explanati	on c	of the symbols
1, 2, 3,	=	Order of
		action
•	=	Instruction



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#### 2.2 Designated use

The device is used in accordance with its designated use if the following instructions are observed:

- · Applicable only with suitable DUNGS systems and software
- Use only in compliance with the operating conditions • stated on the type plate.
- Use in perfect condition only. ٠
- Malfunctions and faults must be eliminated immedi-• ately.
- Use only in observance of the instructions given in this instruction manual and of national regulations.

### 2.3 Risks in case of misuse

- · If used in accordance with their designated use, the devices are safe to operate.
- · Non-observance of the regulations may result in personal injury or material damage, financial damage or environmental damage.

#### Approval / declaration of conformity

· Operator errors or misuse present risks to life and limb of the operators and also to the device and other material property.



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### 5. Content VisionBox mini

The VisionBox mini includes the adapter to connect a PC/Laptop to MPA and VPM systems.

The required software is not included. It is available from the download ares in the DUNGS homepage **www.dungs.com/softwaretools** 





Connecting cable PC/VisionBox



VisionBox



Connecting cable VisionBox/TWI connection MPA, VP



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6. Software Download and Installation

#### www.dungs.com/softwaretools

> VisionBox

Installation:

Select a file and select "Open"

Download the file

Run the .exe file







Press "Ausführen"

Choose language during installation



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Enter Password

Select target folder Confirm with "Next"

Confirm target folder "Yes"

Select Start Menu Folder Confirm with "Next"

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6 ... 26



## 6. Software Download and Installation

Setup - Visio	n Poy		X
OB Setup - Visio	ALDOX		
Password This instal	lation is password protected.		DUNGS®
Please pro	vide the password, then click Next	to continue. Passwords are	
case-sens Password	itive.		
		< Back Next >	Cancel
Betup - Visio	nBox		
Select Dest Where sh	ination Location ould VisionBox be installed?		DUNGS®
ء 🌙	Setup will install VisionBox into the fo	ollowing folder.	
To continu	ue, click Next. If you would like to se	elect a different folder, click l	Browse.
C:\Progra	am Files\VisionBox		Browse
At least 7	,2 MB of free disk space is required.		
	[	< <u>B</u> ack <u>N</u> ext >	Cancel
older Exists			X
(?) <sup>TI</sup>	ne folder:		
C:	\Program Files\VisionBox		
ali	ready exists. Would you like t	to install to that folder	anyway?
		Ja	Nein
_			
Satur - Viei-	nBoy		
Gelent Ch	Monu Folder		
Select Starl Where sho	t <b>Menu Folder</b> ould Setup place the program's short	touts?	DUNGS®
S	etup will create the program's short	cuts in the following Start Me	enu folder.
To continu	e, click Next. If you would like to se	lect a different folder, click B	rowse.
Dungs \Vis	ionBox		Browse
🕅 Dan't c	reate a Start Menu folder		
Don't c	reate a Start Menu folder		
Don't c	reate a Start Menu folder	<back next=""></back>	Cancel



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### 6. Software Download and Installation



Select icon on desktop and / or in quick start bar To install the program on a Tablet PC choose "Tablet mode" Confirm with "next"

Start installation: "Install"

Please wait, installation continues

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D. Setup - VisionBox



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## 6. Software Download and Installation

BlimDX Runtime .NET 4.0 >	(January 2012) Setup     Image: Constraint of the set of the s
	C gccept the terms in the License Agreement
Prin	t Back Install Cancel



BlimDX Runtime .NET 4.0 x	86 (January 2012) Setup	
	Completed the SlimDX x86 (January 2012) Set	Runtime .NET 4.0 up Wizard
X	Click the Finish button to exit the S	etup Wizard.
	Back	nish Cancel

Please confirm "I accept...", continue installation "Install"

Please wait, installation continues

Complete Installation "Finish"



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### 6. Software Download and Installation



Complete installation of the VisionBox program "Finish" Restart the computer to enable the changes



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#### 7. Connection VisionBox

De-energize MPA / VPM.

Connect the 4-pin connector of the VisionBox to the ter-

minal "TWI" - note encoding. Connect the VisionBox to the computer / laptop and start the PC / Laptop. LED Power – on

Energize MPA/VPM.

LED MPA – on

**LED PC** – flashing

**ATTENTION**: Line voltage, don't touch any live parts. Mind the safety rules when working with energized electrical components.



LED Power – on LED MPA – on LED PC – flashing

Start program VisionBox.

Connect MPA/VPM to VisionBox Software

All LED are permanent on



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### 8. Operation VisionBox Software

#### **Initial screen VisionBox**

DUN	IGS VisionBox		1				
File	Connection	View	Settings MPA	Settings VB	Settings GUI	shut-down	
2	12199	Q					

Start-up image VisionBox.

Change language via "Settings GUI"

Link to MPA / VPM via "Connection" or symbol "Connector"

**ATTENTION**: In case of a required software update for the VisionBox see chapter 10

Identify	×
O USB	
© RS232	
Ethernet	
Offline	
ОК	Cancel

Choose link to PC / Laptop and confirm "OK" With the VisionBox Mini only USB and Offline mode possible.



MPA can be equipped with extension modules. Please choose the built in module and confirm with OK.



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## 8. Operation VisionBox Software

#### **Standard View**

File	Connection View Settings MPA Settin	gs VB	Settings GUI shut-down				
	line-Datalog		• X	Erro	r overvie	w	Į ×
Name		Value		#	ID	Description	
Value 1		0#		0	0xA8	Flame failure during operat	
valve 1		01	E	1	0x60	Change of parameter not r	
/arve 2		011		2	0x18	Error from external applica	
gnition		011		3	0xA8	Flame failure during operat	
an		Οπ		4	0x18	Error from external applica	
				5	0xA2	Safety Circuit Open	
lame		No		6	0xA2	Safety Circuit Open	
lame 1		No		7		Memory unused	
ality	of flame	flame 0 digits		8		Memory unused	
lame 2	NO	No		9		Memory unused	
lame 2	NC / GDW / POC	Yes					
Air pres	sure switch	Opened	*				
	m		- F				
arame	ter overview						д×
All	General Startup Operation Shut down Manufa	acturer spe	cific Reserved values				
#	Identifier	Unit	Value				^
10	Release parameterisation		******				E
11	Address field bus		0				
12	recycle count	Anzahl	5				
13	recycle count after flame failure during safety	Anzahl	0				
	recycle count after flame failure	Anzahi	0				
14	Lock out after opening safety chain		Immediate lock out				
14			0. 101-11.0-11.011.0-11-1				
14 15 16	Air pressure switch: mode		U = [Cneck for off=Off, Operation=				

#### The standard view shows:

Status:Operating condition of the connected controlboxError overview:Contend of the error memory of the connected controlboxParameter overview:Current parameter setting of the connected controlbox

DUNGS VisionBox	( Second	Married Married				
File Connection	View	Settings MPA	Setting	js VB	Settings GUI	shut-down
1 🛃   🌽 🎤   🔍 🔍	E	rror overview				
Online-Datalog	P	arameter overvie	W			
Name	0	nline-Datalog		ue		
Valve 1	S	tatus		_		
Valve 2				Off		
Ignition				Off		
Fan				Off		

The windows shown can be displayed or removed via "View"



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## 8. Operation VisionBox Software

#### View: Online-Datenlog



The view "Online-Datalog" provides a graphical overview of the burner functions.



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#### 8.1 Change of access level

Adjusting the parameter setting

To adapt or change parameters is done for all DUNGS devices according to the same procedure. However, the devices differ in the activation of new values. Please refer to the corresponding operating and installation instructions.

The ability to change parameters is restricted by a password hierarchy:

#### **Password** levels

Level 5: Operator / no password / no change authorization

Level 4: Service / password / limited change authorization

Level 3: OEM / Password / full editing rights

Level 2: OEM expert / password / full editing rights incl. expansion variable upper and lower limits

Level 1: DUNGS / password / developer level

Que DUNGS VisionBox Beta V2.4& (SVN: 568 - 20.05.2016 13:48:39)         File Connection View       Settings MPA       Settings VB       Settings GUI       shut-down of the set of the									
File       Connection       View       Settings MPA       Settings VB       Settings GUI       shut-dom         Image: Status       Info       Info       Info       Info       Info         Online-Datalog       Status       Access level       Info       Info       Info         Name       Value       Reset access level       Info       Info       Info       Info         Valve 1       Off       Save configuration       Info       Info       Info       Info         Valve 2       Off       Load configuration       Info       Info       Info       Info         Ignition       Off       Export configuration as PDF       Info       Info       Info       Info	<b>Q</b> , DUNGS VisionBox Bet	DUNGS VisionBox Beta V2.4& (SVN: 568 - 20.05.2016 13:48:39)							
Info       Online-Datalog     Status       Access level       Name     Value       Valve 1     Off       Valve 2     Off       Ignition     Off       Export configuration as PDF	File Connection	ngs VB Settings	GUI shut-down						
Online-Datalog         Status         Access level           Name         Value         Reset access level           Valve 1         Off         Save configuration           Valve 2         Off         Load configuration           Ignition         Off         Export configuration as PDF	🍠 🖉   💐 🔍 🤫		Info						
Name     Value     Reset access level       Valve 1     Off     Save configuration       Valve 2     Off     Load configuration       Ignition     Off     Export configuration as PDF	Online-Datalog S	Status	Access level						
Valve 1     Off     Save configuration       Valve 2     Off     Load configuration       Ignition     Off     Export configuration as PDF	Name	Value	Reset access lev	/el					
Valve 2     Off     Load configuration       Ignition     Off     Export configuration as PDF	Valve 1	Off	Save configuration						
Ignition Off Export configuration as PDF	Valve 2	Off	Load configuration						
Expert corriger die frei br	Ignition	Off	Export configurat						
Fan Off Sond configuration via smail	Fan	Off	Send configuration via email						
Send conliguration via email			Send conliguration	on via email					
Flame No Load delivery configuration	Flame	No	Load delivery co	nfiguration					
Flame 1 No Export error list	Flame 1	No	Export error list						

Open "Settings MPA" (also for VPM) Select "Access Level"

Change access level	×
Password	
Access level	5 = Operator
ОК	Cancel

Change access level	×
Password	•••••
Access level	3 = OEM 🔻
ОК	Cancel

Enter password Select Access Level

Confirm with OK



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Change access level	×
Confirm change of access level	
-	

Confirm change of the access level by pressing the RESET button on the MPA / VPM

Change access level	x
Change sucessfull Current access level: 3	
ок	

Change of the access level successful, complete with "OK"

## **8.2** Copy of a existing parameter set

DUNGS VisionBox Beta V2.4& (SVN: 568 - 20.05.2016 13:48:39)						
File Connection View	Settings MPA Settings VB Settings GUI shut-down					
🍠 🧬   🗨 🔍 🔍	Info					
Online-Datalog Statu	Access level					
Name	Reset access level					
Valve 1	Save configuration					
Valve 2	Load configuration					
Ignition	Export configuration as PDF					
Fan	Send configuration via email					
Flame	Load delivery configuration					
Flame 1	Export error list					

Open "Settings MPA" (also for VPM) Select "Load configuration"

If the VisionBox program is connected to a MPA/VPM the differences between the actual parameter setting of the MPA/VPM and the loaded configuration will be shown with yellow marked cells.



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## **8.3** Change of parameter

#### Window "Parameter overview"

Param	eter overview		
All	General Startup Operation Shut down Manuf	acturer spe	cific Reserved values
#	Identifier	Unit	Value
10	Release parameterisation		******
11	Address field bus		0
12	recycle count	Anzahl	5
13	recycle count after flame failure during safety	Anzahl	0
14	recycle count after flame failure	Anzahl	0
15	Lock out after opening safety chain		Immediate lock out
16	Air pressure switch: mode		0 = [Check for off=Off, Operation=
17	Type of temperature control		3 = Regulation on thermostat
18	Configuration FLW2_NC, GDW or POC		1 = Flame input (NO)
19	Configuration output operation		3 = Flame on
20	Duration safety chain open	s	60
21	Shutter test		0 = [Shutter test flame detector 1=
22	FM mode active		Inactive
30	Duration pre purge	s	30
31	Pre-ignition time	s	10
32	First safety time	s	10
33	Active flame input phase 1		1 = Flame detector 1 only
34	Stabilization time A	s	3
35	Second safety time	s	1
36	Active flame input phase 2		1 = Flame detector 1 only

# Example Change prepurge time

30	Duration pre purge	s	30				
31	Pre-ignition time	s	10		Read parameter		
32	First safety time	s	10		Write parameter		
33	Active flame input phase 1		1 = Flame detector 1 only		Read all parameters		
34	Stabilization time A	s	3		Write all parameters		
35	Second safety time	s	1		Change Parameter		Change Value
36	Active flame input phase 2		1 = Flame detector 1 only		Show details		Change upper limit
37	Stabilization time B	s	3				Change lower limit
38	Configuration V1 and V2		1 = Permanent start gas, V1 an	d V		_	Change lower limit



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Value	"More during speed.	<b>E</b>
P30 Duration pre purge		Edit raw value
	30 s	
- , ,		+
		+
Min. 0 s	Original 480 1/16 s	Max. 4095,875 s
Ok	Abbrechen	

The value (time in seconds) for the prepurge time may be entered direct in the value window, by using the +/- buttons or by moving the value pointer.

Confirm value with "OK"

The new value is transferred to the device

#### Example Changing number of restart attempts

Select parameter and activate the parameter by doubleclick in the value field. Alternatively, via a selection menu (click right mouse button) the parameters are enabled for change.

Value	and the second sec		×
P13 recycle count after flame failure	during safety time	Edit raw value	
1		_	
	1	· · ·	
Min. 0 Anzahl Original 1	Anzahl	Max. 5 Anzahl	
Ok Abbrechen			

The value (number of allowed restart attempts) may be entered direct in the value window, by using the +/- buttons or by moving the value pointer.

Confirm value with "OK"

The new value is transferred to the device.

The values are saved immediately after the confirmation in the control, to enable the parameter change refer to the relevant operating and installation instructions.



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## 9. Error overview

The error overview shows the last ten in the control stored errors.

The error ID refers to the error description in the corresponding operating and installation instructions.

FLLL	overview							
#	Performance	ID	Description	Procedure	Anti cycle counter	State	Timestamp	Additional information
0	lock out (0x23)	0xA2	Safety Circuit Open	0x0004	5	8 = Pre-purge	07:55:30	0x60 0x00 0x00 0x7C 0x12 0x40 0x23 0x8F 0x00 0x17
1			Memory unused					
2			Memory unused					
3			Memory unused					
4			Memory unused					
5			Memory unused					
6			Memory unused					
7			Memory unused					
8			Memory unused					
9			Memory unused					



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## **10.VisionBox Update Software**

If the VisionBox is connected to the PC / laptop via USB and the software is started, the program automatically performs a check of the software status of the VisionBox.

If a later version of the firmware available a update window automatically opens.



#### VisionBox Update, error messages

Early versions of the VisionBox can not be updated. The following error message is displayed. Update VisionBox only possible by DUNGS.





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## 11. VisionBox update, error messages

Other errors such as missing link shows a log of the error.





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# 12. Documentation device configuration

#### **Create PDF document of device configuration**

DUNGS VisionBox Beta V2.48	(SVN: 568 - 20.05.2016 13:48:39)			
File Connection View	Settings MPA Settings VB Settings GUI shut-down			
2 🖉 🖉 ( 🔍 🔍 (	Info			
Online-Datalog Status	Access level			
Name	Reset access level			
Valve 1	Save configuration			
Valve 2	Load configuration			
Ignition	Export configuration as PDF			
Fan	Send configuration via email			
Flame	Load delivery configuration			
Flame 1	Export error list			
Quality of flame	Export parameter list			
Flame 2 NO				
Flame 2 NC / GDW / POC	Reset operating time			

Update of information			×
Should parameters be updated before	e writing the configuration?		
	N	Ver	
	INO	Tes	
			:

Open "Settings "MPA" Select "Export configuration as PDF"

Before the PDF document is generated the parameter values can be updated



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PDF options		×
V General information		
✓ Name		
Parameter overview		
Programming of curve		
Error overview		
✓ State overview	OK Cancel	

DF options		×
General information	Customer's name Application Address Comment	
Vame	Serviceteam 01	
Parameter overview Programming of curve		
The second secon		
State overview		OK Cancel



The information which will shown in the file can be selected by putting a checkmark into the selection fields Light grey fields cannot be shown.

The red coloured areas "General information" and "Name" can be filled in by the applicant. These information will be shown in the front page of the documentation.

The VisionBox saves the information, they can be shown again by pressing the "..." button.

After the input is confirmed by pressing the "OK" button the PDF document will be generated.



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# **13.** Send configuration via email

DUNGS VisionBox Beta V2.4& (SVN: 568 - 20.05.2016 13:48:39)						
File Connection View	Settings MPA Settings VB Settings GUI shut-down					
💋 🧬 🔍 🔍 🔍	Info					
Online-Datalog Status	Access level					
Name	Reset access level					
Valve 1	Save configuration					
Valve 2	Load configuration					
Ignition	Export configuration as PDE					
Fan	Send configuration via email					
	Send conliguration via email					
Flame	Load delivery configuration					
Flame 1	Export error list					
Quality of flame	Export parameter list					
Flame 2 NO						
Flame 2 NC / GDW / POC	Reset operating time					
Air pressure switch	Reset startupcounter					
Input tomp, soquiates (HMO)	Manage snapshotpointer					
input temp. regulator (HW)						
Hand operation	Off					

Update of information			x	
Should parameters be updated before writing the configuration?				
	No	Yes		
			.::	

Open "Settings "MPA" Select "Send configuration via email"

A XML file of the configuration as well as a PDF document with the content of the XML file will be generated.

Before the PDF document is generated the parameter values can be updated

After the selection a email will be generated automatically.



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> DUNGS® Combustion Controls

# 14. Reset to factory setting

DUNGS VisionBox Beta V2.4& (SVN: 568 - 20.05.2016 13:48:39)						
File Connection View	Settings MPA Settings VB Settings GUI shut-down					
🍠 🧬   🗨 🔍 🔍	Info					
Online-Datalog Statu	Access level					
Name	Reset access level					
Valve 1	Save configuration					
Valve 2	Load configuration					
Ignition	Export configuration as PDF					
Fan	Send configuration via email					
Flame	Load delivery configuration					
Flame 1	Export error list					
Quality of flame	Export parameter list					
Flame 2 NO						
Flame 2 NC / GDW / POC	Reset operating time					
Air pressure switch	Reset startupcounter					
	Manage snapshotpointer					
Input temp. regulator (HW)						
Hand operation	Off					

Open "Settings "MPA" (also for VPM). Select "Load delivery configuration" The VisionBox select's automatically the belonging configuration. Different values towards the settings in the MPA / VPM will be highlighted yellow.



Read parameter	
Write parameter	
Read all parameters	
Write all parameters	
Change Parameter	×.
Show details	

To write the factory setting to the device, choose "Write all parameters" by pressing the right mouse button.

To write the parameter values access level "OEM" is required.

For a new configuration see chapter 8 ff.



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The Pressure Equipment Directive (PED) and the Energy Performance of Buildings Directive (EPBD) require a periodic inspection of **heating appliances** in order to ensure a high degree of efficiency over a long term and, consequently, the least environmental pollution. It is necessary to replace safety-relevant components after they have reached the end of their useful life. This recommendation applies only to heating appliances and not to industrial heating processes. DUNGS recommends replacing such components according to the following table:

Safety relevant component	USEFUL LIFE DUNGS recommends replacement after:	Operating	EN Standard
Valve proving systems	10 years	250.000	EN 1643
Pressure switch	10 years	N/A	EN 1854
Automatic burner control with flame safeguard	10 years	250.000	EN 298
Flame detector (UV probes)	10.000 h operating hours		
Gas pressure regulators	15 years	N/A	EN 88 EN 12078
Gas valve without valve testing system*	10 years	50.000-500.000 depends on diameter	EN 126 EN 161
Low gas pressure switch	10 years	N/A	IEN 1643
Pressure relief valve	10 years	N/A	EN 88 EN 14382
Gas-air ratio control system	10 years	N/A	EN 12067

We reserve the right to make modifications in the course of technical development.

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