Technical Specification Title: DMG-N

Honeywell Combustion Controls S.r.l.

Doc.: 50036722

Contents

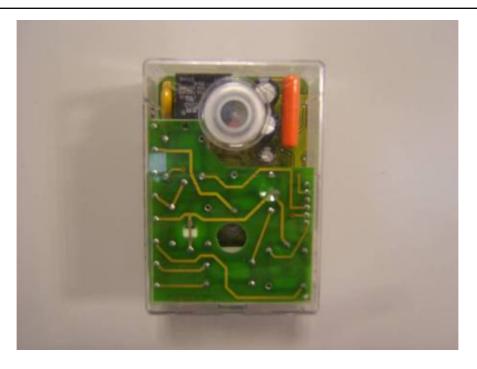
SUMN	IARY DESCRIPTION			2
IMPOF	RTANT NOTES			2
	ETY INSTRUCTIONS			
	NDED USE			
	E FOR THE EQUIPMENT OPERATOR			
	NING OF SYMBOLS AND SIGNAL TERMS USED			
	UCT INFORMATION			
	LICATION			
	IGN AND FUNCTION			
	DEL FUNCTIONS			
	E OVERVIEW			
	DER INFORMATION			
	HNICAL DATA			
	ENSIONAL DRAWING			
	CK DIAGRAM			
	STATEMENT OF CONFORMITY			
	NGS			
	NGSINECTION DIAGRAM AND PROCESS DIAGRAM			
APPLI	CATION-SPECIFIC FEATURES			13
	PRMATION SYSTEM			
	GRAM SEQUENCE DISPLAY			
	KING AND UNLOCKING			
	ME MONITORING			
	AY LIGHT MONITORING			
ASSE	MBLY AND INSTALLATION		•••••	14
SAF	ETY INSTRUCTIONS			14
Ass	EMBLY AND ELECTRICAL INSTALLATION			15
FLAI	ME MONITORING			15
STAR	TUP AND INSPECTION	•••••		16
SAF	ETY NOTE			16
	CTION CHECK			
LOCK	OUT CONDITIONS	•••••		16
Рот	ENTIAL FAULTS			16
	KOUT DIAGNOSTICS			
REPA	IR AND DISPOSAL			19
	Regulations numbers updated, page 12 removed for duplicity, air damper			T_,,
C	symbol updated to LK	08-Aug-2016	0135996	R.Vasicek
B	Added functional statements and deleted <i>Line voltage monitoring</i> paragraph	03-24-2011	0076345	MasPia
A	First issue.	01-07-2008	0036115	AleCas
Rev.	Description	Date	E.C.N.	Sign.

Technical Specification

Title: DMG-N

Honeywell Combustion Controls S.r.l.

Doc.: 50036722



Summary description

The burner control boxes DMG97x-N control and supervise 2 stage forced draught and oil/gas burners. They are tested and approved according to EN298:2012. They can also be used with direct air heaters (DIN 4794).

Important Notes

Safety instructions

- 1. Comply with the operating instructions.
- 2. Use the device as
 - intended
 - · in flawless condition,
 - aware of safety and hazards.
- 3. Note that all assembly, startup, maintenance and adjustment activities may only be performed by authorized skilled technicians.
- 4. Malfunctions that may compromise safety must be remedied immediately.
- 5. We do not assume liability for damages and operating malfunctions resulting from disregard of these instructions or improper handling of the digital burner control boxes!



In regard to construction and program sequence, the burner controllers DMG97x-N correspond to the applicable European directives, standards and regulations (see PRODUCT INFORMATION).

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Technical Specification Title: DMG-N

Honeywell Combustion Controls S.r.l.

Doc.: 50036722

Intended use

The digital burner control boxes DMG 97x-N are solely intended for OEMs using the controller in or on their products. The control box DMG97x-N will functionally replace the control box DMG97x.

The intended use also includes observing the operating instructions.

Any other or additional use is considered not in compliance with the intended use. The manufacturer is not liable for resulting damages.

Note for the equipment operator



The equipment operator shall exclusively follow the instructions and safety notes of the corresponding operating and maintenance instructions of the burner or heater manufacturer.

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Technical Specification

Title: DMG-N

Honeywell Combustion Controls S.r.l.

Doc.: 50036722

Meaning of symbols and signal terms used

Symbol

Danger term and structure

Meaning

DANGER!



Description of danger location and danger

· Measures for danger prevention

DANGER!



Description of danger location and danger

· Measures for danger prevention

WARNING!



Description of danger location and danger

· Measures for danger prevention

CAUTION!



Description of danger location and danger

· Measures for danger prevention



Description of instruction



Text

Safety note - High danger potential

High risk, disregard leads to irreversible personal injury and even death or significant property damage. Prohibiting symbol (complemented by specific pictograph) in conjunction with the term **'DANGER'**

Safety note - High danger potential

High risk, disregard leads to irreversible personal injury and even death or significant property damage. Attention symbol (complemented by specific pictograph) in conjunction with the term **'DANGER'**

Safety note - Medium danger potential

Medium risk, disregard may lead to irreversible personal injury and even death or significant property damage. Attention symbol (complemented by specific pictograph) in conjunction with the term 'WARNING'

Safety note - Low danger potential

Low risk, disregard may lead to light personal injuries or light property damage. Attention symbol (complemented by specific pictograph) in conjunction with the term 'CAUTION'

Instruction, e.g. required protective measures

No danger term, round symbol (complemented by instruction-related pictograph)

Note, tip or important information

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Rev.	Description	Date	E.C.N.	Sian.

Technical Specification

Title: DMG-N

Honeywell Combustion Controls S.r.l.

Doc.: 50036722

Product Information

Application

The burner controllers DMG 97X-N control and supervise 2 stage forced draught and oil/gas burners. They are tested and approved according to EN298:2012. They can also be used with direct air heaters.

Possible flame sensors:

- · Ionization probe
- · Infrared flame detector IRD 1020.1

Design and Function

The enclosure consists of a flame-resistant plug-in type plastic housing.

Microprocessor, electronic components, output relay, automatic flame guard are arranged on a printed circuit board, well-protected in the housing.

The LEDs for the information system are located on the top of the housing.

Stable timings are achieved with the microprocessor-controlled program sequence, independent of:

- · fluctuations of the line voltage
- · ambient temperature
- · starting cycles

The built-in visual information system not only permits continuous monitoring of the current events (useful especially to monitoring the starting process) but also provides information on causes of a possible lockout.

In each instance, the last error causes are stored in the device and can even be reconstructed after a voltage drop when the unit is switched on again.

The design of the burner controllers provides safety against low voltage conditions; thus the system is not endangered even in case of extreme voltage drops.

Model functions

Listed are the features of the family:

- · 2-stage featured
- · Air proving switch input
- · With or without Air Dumper control output
- restart / repetitive or fault lockout / blocking in case of flame failure after safety time or in case of flame failure during operation
- · IR data transfer to PC
- with fault indicator (LED)
- · only non-volatile lockout possible
- pin to pin compatibility with previous product family DMG 97x

Type overview

Product Family DMG 97x-N consists on three standard products:

DMG 970-N Main family product (also version 110/120V possible)

DMG 972-N like DMG 970-N, with air damper relay output installed, active during start up and run condition

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Technical Specification Title: DMG-N

Honeywell Combustion Controls S.r.l.

Doc.: 50036722

DMG 973-N like DMG 970-N, with air damper relay output installed, active during start up Each product can have different software customizations (Model) - see below.

Order information

DMG 970-N Burner control boxes

Article	Order text	Item no.
Control box	DMG 970-N Mod.01	0450001
Control box	DMG 970-N Mod.02	0450002
Control box	DMG 970-N Mod.03	0450003
Control box	DMG 970-N Mod.05	0450005
Control box	DMG 970-N Mod.06	0450006

DMG 972-N Burner control boxes

Article	Order text	Item no.
Control box	DMG 972-N Mod.01	0452001
Control box	DMG 972-N Mod.03	0452003
Control box	DMG 972-N Mod.04	0452004
Control box	DMG 972-N Mod.06	0452006

DMG 973-N Burner control boxes

Article	Order text	Item no.
Control box	DMG 973-N Mod.01	0453001

Accessories

Item	Order text	Item no.
Flame detector	IRD 1020.1 axial	16532
Flame detector	IRD 1020.1 left	16533
Flame detector	IRD 1020.1 right	16531
Bracket	Bracket M 93 for IRD 1020.1	59093
Sensor cable	3-pole, 0.6 m	7236001
Socket	Socket S98	75310

The above ordering information refers to standard design. The sales program also includes special designs.

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Rev.	Description	Date	E.C.N.	Sign.

Technical Specification Title: DMG-N

Honeywell Combustion Controls S.r.l.

Doc.: 50036722

Technical data

Operating voltage	230 V (-15 +10%)
	50/60 Hz (±5%)
Series fuse	10 A fast, 6 A slow
Consumption	Approx. 12 VA
Max. load per terminal:	
- Terminal 3 Ignition transformer output	$1.5 \text{ A} - \cos \phi 0.2$
- Terminal 4 Motor	$2.0~A-\cos\phi~0.4$
- Terminal 5 Electro valve1	$1.0 \text{ A} - \cos \phi \text{ 0.4}$
- Terminal 5 Electro valve2	$1.0~A-\cos\phi~0.4$
- Terminal C Air Dumper output	$1.0 \text{ A} - \cos \phi \text{ 0.4}$
- Terminal B Lockout	$1.0 \text{ A} - \cos \phi \text{ 0.4}$
Total	5.0 A – cos φ 0.4
	Max. 20 A during 0.5 sec.
Air proving switch	1 working contact
Min. required ionization current (flame on le	evel)1 μA
Sensitivity, operation (flame off level)	0.7 μΑ
Stray light sensitivity	0.4 μΑ
Max. ionization current	26 μΑ
Probe isolation	Probe – Earth greater than 50 $\text{M}\Omega$
Stray capacitance	Probe – Earth smaller than 1000 pF
Length of cables:	
- Release Cable, Lockout signal cable	> 10 m
- Air Dumper signal	< 10 m
- Flame signal cable	< 3 m
- other cables	< 1 m
Weight	175 g
Protection class	IP 40

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Honeywell Combustion Controls S.r.l.

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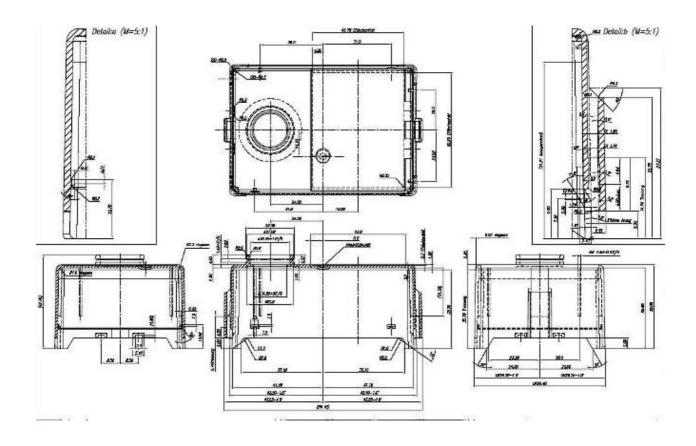
Approved temperature range

- *Operation* -20 °C... +60 °C - *Storage* -20 °C... +80 °C

Ice formation, water impact and condensationare not permittedTested according to European standardEN 298:2012, as well as all supporting regulations and directives.EN298:2012 classificationFTLLXN

Dimensional drawing

The maximum mechanical outline dimensions of the plastic box hosting the control box DMG97x-N are reported:



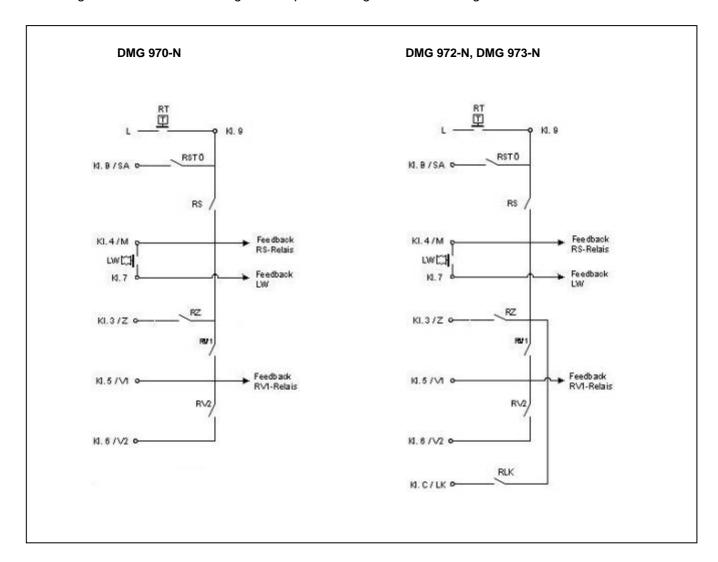
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Honeywell Combustion Controls S.r.l.

Doc.: 50036722

Block Diagram - see Connection diagram and process diagram section for legend



CE Statement of conformity

The products DxG97x-N meet the basic requirements of the following directives:

Low Voltage Directive: 2014/35/EU

• EMC Directive: 2014/30/EU

• Gas devices Directive in conjunction with EN 298:2012

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Technical Specification

Honeywell Combustion Controls S.r.l.

Title: DMG-N

Doc.: 50036722

Timings

DMG 970-N Burner control boxes

Mod.	tlw	tv1	tvz	tn	tf	Ts	tv2
	s	s	s	s	s	S	S
01	60	24	3	2,5	5	3	12,5
02	60	24	3	3,8	5	5	14,5
03	60	40	3	2,5	5	3	12,5
05	60	24	3	3,8	5	5	14,5
06	60	20	0	2,5	5	3	3

DMG 972-N Burner control boxes

Mod.	tlw	tv1	tlk	tr	Tvz	tn	tf	ts	tv2
	S	S	S	s	S	s	s	S	S
01	60	54	40	14	3	2,5	5	3	8
03	60	61	24	37	3	2,5	5	3	8
04	60	42	24	18	3	1,5	5	2	10
06	0	3	3	0	0	2,5	2,2	3	3

DMG 973-N Burner control boxes

Mod.	Tlw	tv1	tlk	tr	Tvz	tn	tf	ts	tv2
	S	s	s	s	S	s	s	S	S
01	60	44	36	8	3	2,5	5	3	6

Connection diagram and process diagram

CAUTION!



Use only the connection schema for the wiring noted for the respective model variant (see type overview).

· Wrong wiring will cause faulty functions!

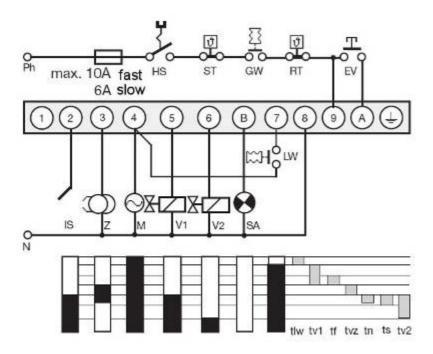
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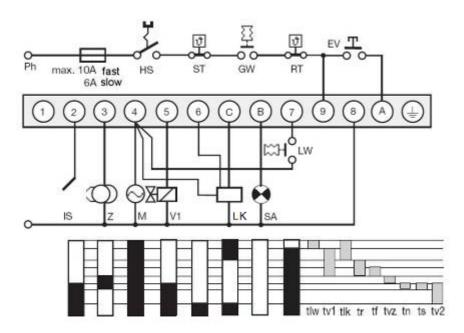
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Doc.: 50036722

DMG 970-N, DMG 972-N, DMG 973-N connection diagram 'Without Air Damper':



DMG 972-N connection diagram 'With Air Damper':



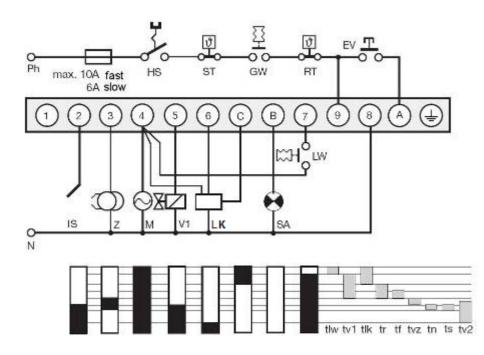
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Honeywell Combustion Controls S.r.l.

Doc.: 50036722

DMG 973-N connection diagram 'With Air Damper':



Legend:

tlw	Max. response time for air proving
	switch

tvz Pre-ignition time

tf Stray light monitoring

ts Safety time

tn Post-ignition time

tv1 Monitored pre-purge time

tv2 2nd stage delay

tlk Air damper open during pre-purge

tr Air damper closure time

HS Main switch

ST High Temperature Limiter

GW Gas Control switch

RT Control thermostat

EV External unlocking/locking

LW Air proving switch

IS Ionization probe (IRD1020.1

- see separate connection schema)

Z Ignition electrode

M Motor

V1 Solenoid valve 1st stage

V2 Solenoid valve 2nd stage

LK Air Damper

SA External fault indicator

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Technical Specification

Title: DMG-N

Honeywell Combustion Controls S.r.l.

Doc.: 50036722

Application-specific features

Information system

The information system indicates the processes in the burner control. It provides constant information on the program phase the digital burner control box is currently in.

The information system allows to immediately reveal burner faults during start or operation.

If the cause of the fault cannot be analyzed immediately on site, this can be done later thanks to the non-volatile memory.



Once the digital burner control boxes has been reset, the cause of the fault can visually no longer be detected.

The messages of the information system are visualized via a LED using a blinking code (like a Morse code). With the help of an (optional) accessory device, these messages can also be recorded and displayed in plain text.

Program sequence display

The built-in microprocessor controls both the information system and the program sequence. The individual phases of the program sequence are indicated as blinking code as follows:

Message	Blinking code
Control pause, no heat request	I
Burner starts	Ш
Burner in operation	I
Post-ventilation	П
Line voltage or frequency not in the permissible range	I

Legend:

- I = short pulse
 - = long pulse

Locking and unlocking

The device can be locked (fault occurred) or unlocked (fault remedied) in the following way:

- External

Fault elimination is done via an external button connecting Terminal 9 with Terminal A.

If the button is pushed longer than 3 seconds and released again during normal operation, the device switches to fault mode.



Locking or unlocking of the device is only possible when line voltage has been applied to it!

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Title: DMG-N

Honeywell Combustion Controls S.r.l.

Doc.: 50036722

Flame monitoring

Flame monitoring can be conducted with the following flame sensors:

- · Ionization probe, temperature-resistant material. Material and isolation like ignition electrode
- Infrared flicker detector IRD 1020.1 with bracket M93.

Flame monitoring with ionization probe is only possible in networks with grounded neutral. When connecting the IRD 1020.1, correct wiring must be ensured.

Stray light monitoring

Stray light monitoring takes place during the period specified in the technical data at the end of pre-purge.

Assembly and installation

Safety instructions

WARNING!



- Assembly may only be performed by trained personnel. The relevant national installation regulations must be observed.
- The series fuses are to be chosen so that the limit values specified under TECHNICAL DATA are positively not exceeded! Disregarding this stipulation may have serious implications for burner control box or system in case of a shortcircuit!
- The burner control box may only be plugged in and unplugged without voltage!
- Burner controllers are safety devices and may not be opened!

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Technical Specification

Title: DMG-N

Honeywell Combustion Controls S.r.l.

Doc.: 50036722

Assembly and electrical installation

CAUTION!



The controller and the sensor shall not be subject to excessive vibration!

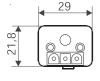
Flame monitoring

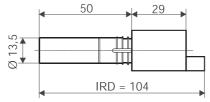
The following flame sensors are available for flame monitoring:

Ionization probe, temperature-resistant material. Material like ignition electrode.

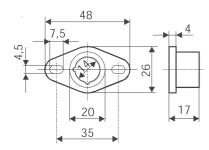
Infrared flame detectors IRD 1020.1 with bracket M93

Dimensional drawing IRD 1020.1

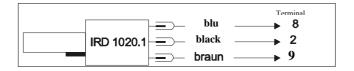




Dimensional drawing bracket M93 to IRD 1020.1



IRD 1020.1 connection



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Doc.: 50036722

Startup and inspection

Safety note

WARNING!



 The wiring shall be closely inspected prior to startup. Wrong wiring may damage the device and endanger the safety of the system!

Function check

A safety check of the flame monitoring must be performed both at initial startup and during revisions or prolonged shut-down periods of the system.

- 1. Starting test with closed gas valve
- · During blocking operation, the burner control box must switch to lockout after the end of the safety time.
- 2. Normal start; close gas valve when burner is in operation
- During blocking operation, the burner control box must switch to lockout after a flame failure.
- 3. Normal start; interrupt air proving switch contact during pre-ventilation or operation
- During blocking operation, the burner control box must immediately switch to fault condition.
- 4. Welded air pressure input prior to starting
- The controller will switch to lockout after approx. 5 sec.

Lockout conditions

Potential faults

Thanks to the built-in information system, faults can be detected during the start or in operation without a major effort.



The device remains in the lockout and the cause of the fault is indicated until the burner control box is unlocked (fault remedied) again (see also "Locking and unlocking").



Because the lockout is not remedied by pulling the plug from the device (for models with unalterable fault lockout) or by interrupting the line supply, the device switches once more to the lockout position approx. 5 sec. after applying the line voltage and the last lockout is indicated.

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Problem	Potential faults
Burner does not start operation	Thermostat off Electrical supply line faulty Line voltage too low Constant voltage on terminal 9
A fault is indicated approx. 5 sec. after voltage release	Burner control box is not reset from lockout
Controller switches to fault or recycles during pre-ventilation	 Air proving switch contact does not close Air proving switch contact opens again
Controller switches to lockout at the end of preventilation or recycles	Air proving switch contact opens Flame signal (stray light)
Without flame generation controller switches to fault at the end of the safety time or recycles	Fuel supply or ignition missing
Burner starts, flame is generated, fault lockout after safety time has lapsed or recycles	 No flame signal or flame signal too weak (flame is not stable, poor insulation of the flame sensor, poor ground connection) Insufficient light on flame sensor Sensitivity on IRD set too low

Lockout diagnostics

During the start or operation, faults are detected with the built-in information system.

The LED is permanently lit in case of a fault.

Lighting is interrupted approx. every 10 sec. and a blinking code, providing information on the cause of the fault, is emitted. The following sequence is repeated until the fault has been acknowledged, i.e. the digital gas burner control boxes has been reset.



- 1) Light on (10 sec)
- 2) No light
- 3) Blinking-code
- 4) No light

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Error message	Blinking code	Error cause
Lockout after safety time	I	No flame detection within safety time
Stray light interference	I	Stray light during monitored phase possible defective sensor
Air proving switch Time-out	I	Air proving switch does not close within defined period
Air proving switch opens	I	Air proving switch contact opens during start or operation
Flame failure	П	Flame failure during operation
Air proving switch does not open	I	Air proving switch contact welded
Manual/external lockout (see also 'Locking and unlocking')		

Legend:

I = short pulse

= long pulse

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Repair and disposal



Digital gas burner control boxes may only be repaired by the product manufacturer.



Your warranty becomes void if you open the digital gas burner control boxes.

When taking back the digital gas burner control boxes, the supplier of the heating system guarantees professional disposal or forwarding for inspection to the product manufacturer.

CAUTION!



- Handling the control box during maintenance and service could potentially generate Electrical Discharges dangerous for the electronic device.
- The effects of the operator discharge may be a simple malfunction of the equipment or damage of electronic components.
- The generation of electrostatic charges is especially favoured by the combination of synthetic fabrics and dry atmosphere.
- Suggested to touch the control box only using insulating shields (e.g. antistatic gloves).

С	Regulations numbers updated, page 12 removed for duplicity, air damper symbol updated to LK	08-Aug-2016	0135996	R.Vasicek
В	Added functional statements and deleted Line voltage monitoring paragraph	03-24-2011	0076345	MasPia
Α	First issue.	01-07-2008	0036115	AleCas
Rev.	Description	Date	E.C.N.	Sign.