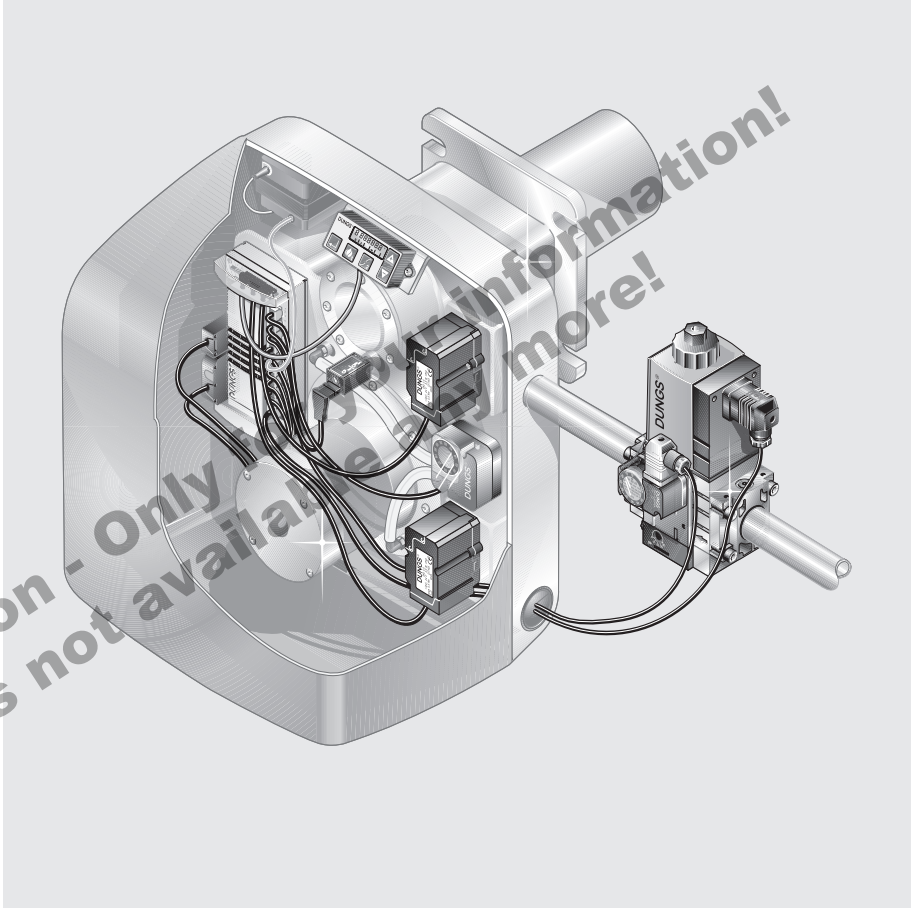
Equipment Family µP Automatic Burner Control MPA22

Automatic burner control for gas and/or oil

1.01

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Product is not available anymore!

Technical description

Microprocessor-controlled automatic burner control for intermittent operation for controlling and monitoring single-stage, two-stage and modulating blown burners with one or two electronically interlinked stepping motor actuator drives and an integrated valve proving system for operation as a gas burner control system.

Accessories

Flame monitoring device
Actuator drives
Display unit
eBUS interface
Plug set

Classification as per EN 298

FMCLJN, FMLLJN
The classification is dependent on the set-up.

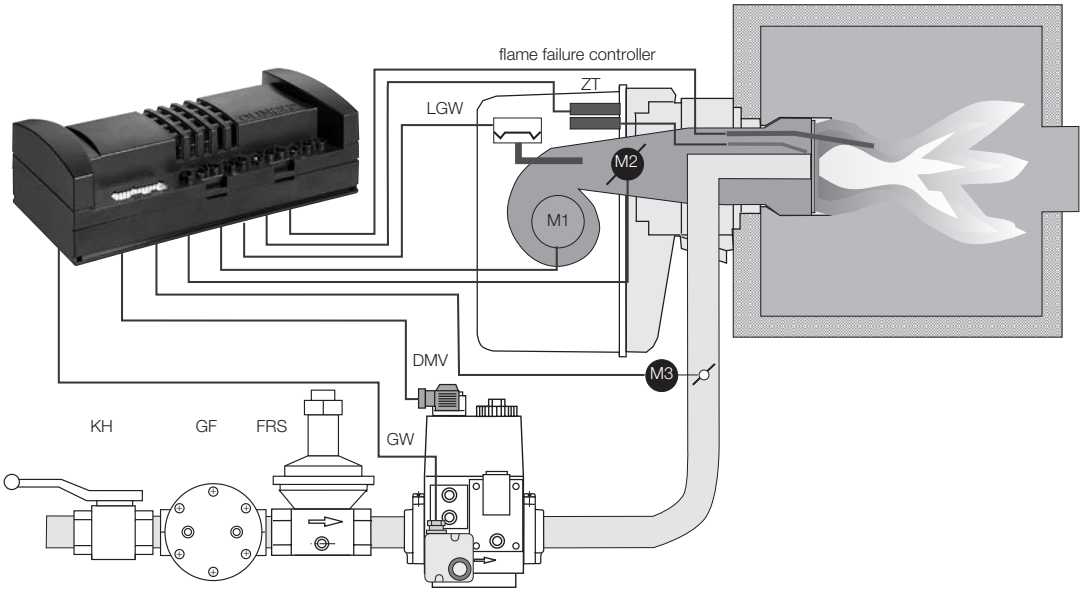
Approvals

EU type test approval as per EU Gas Appliance Directive.

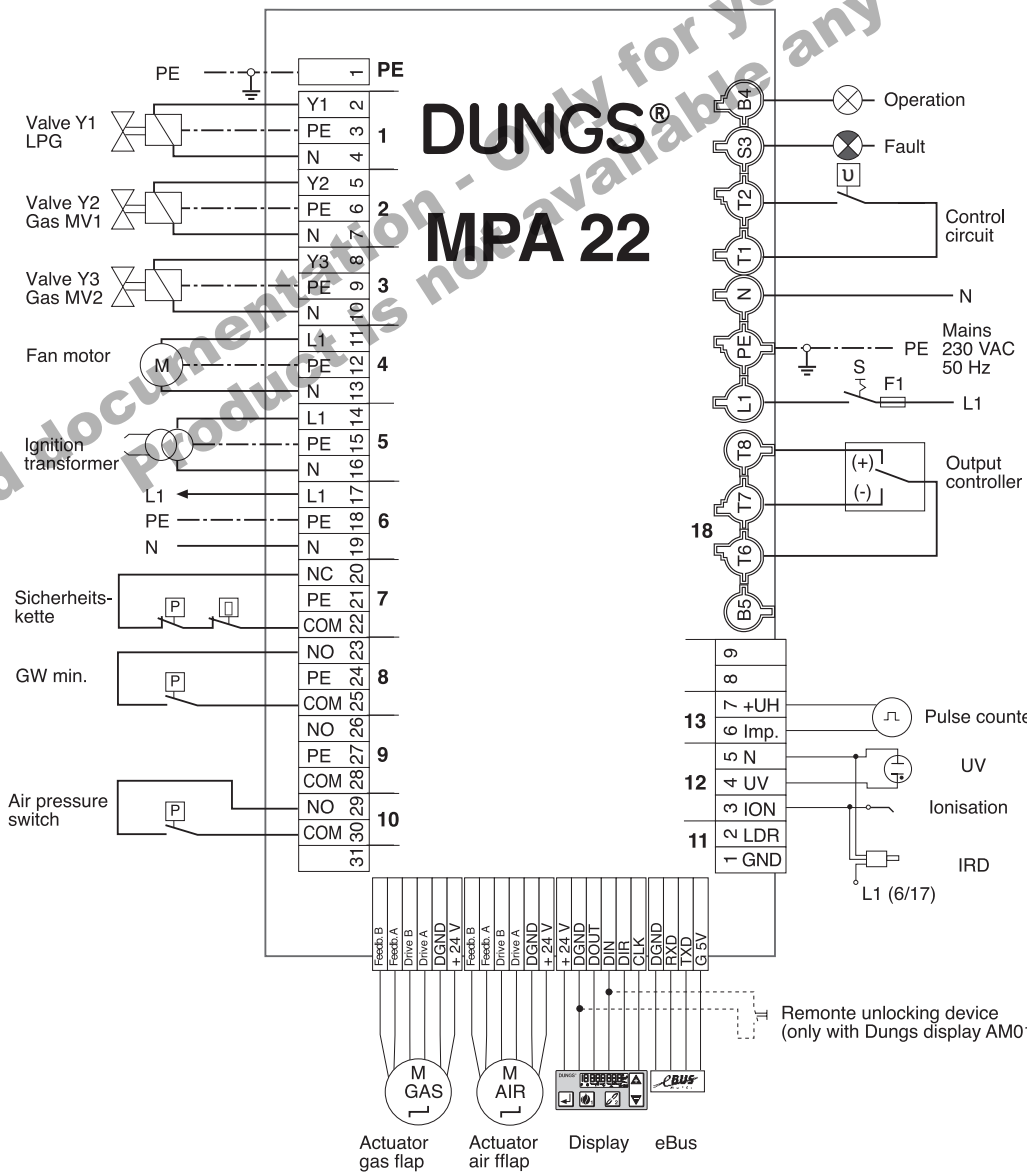
MPA22	CE-0085 AU 0316

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Gas firing, electronic modulation

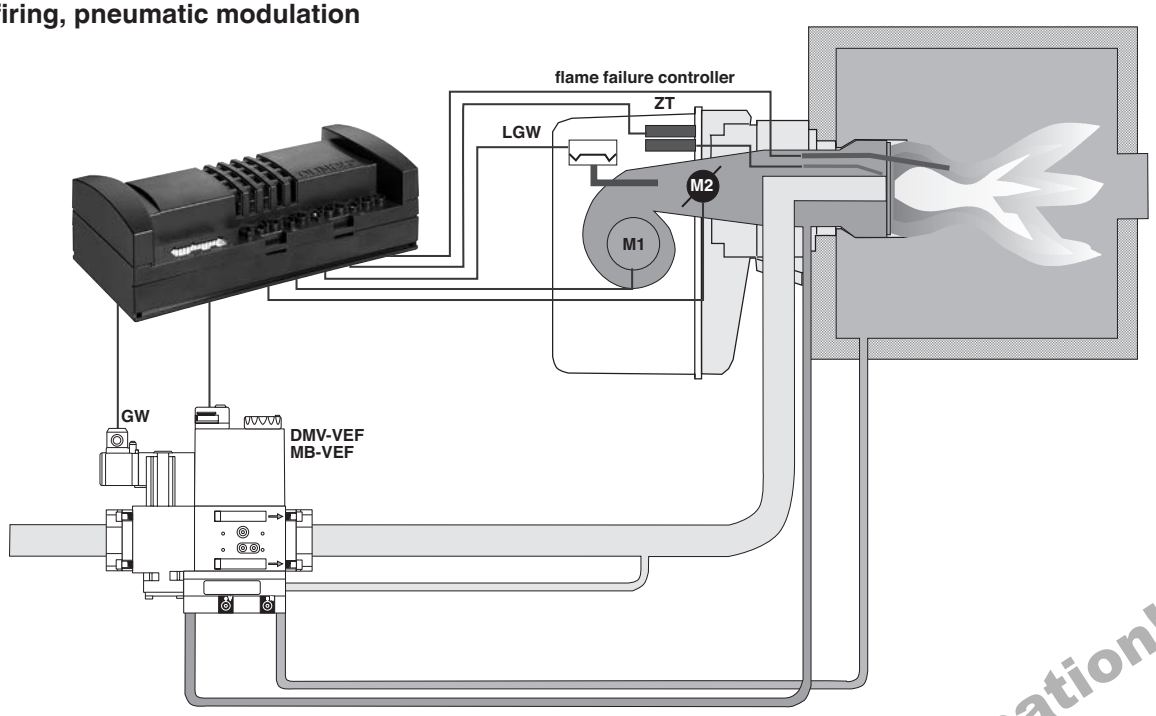


Terminal diagram

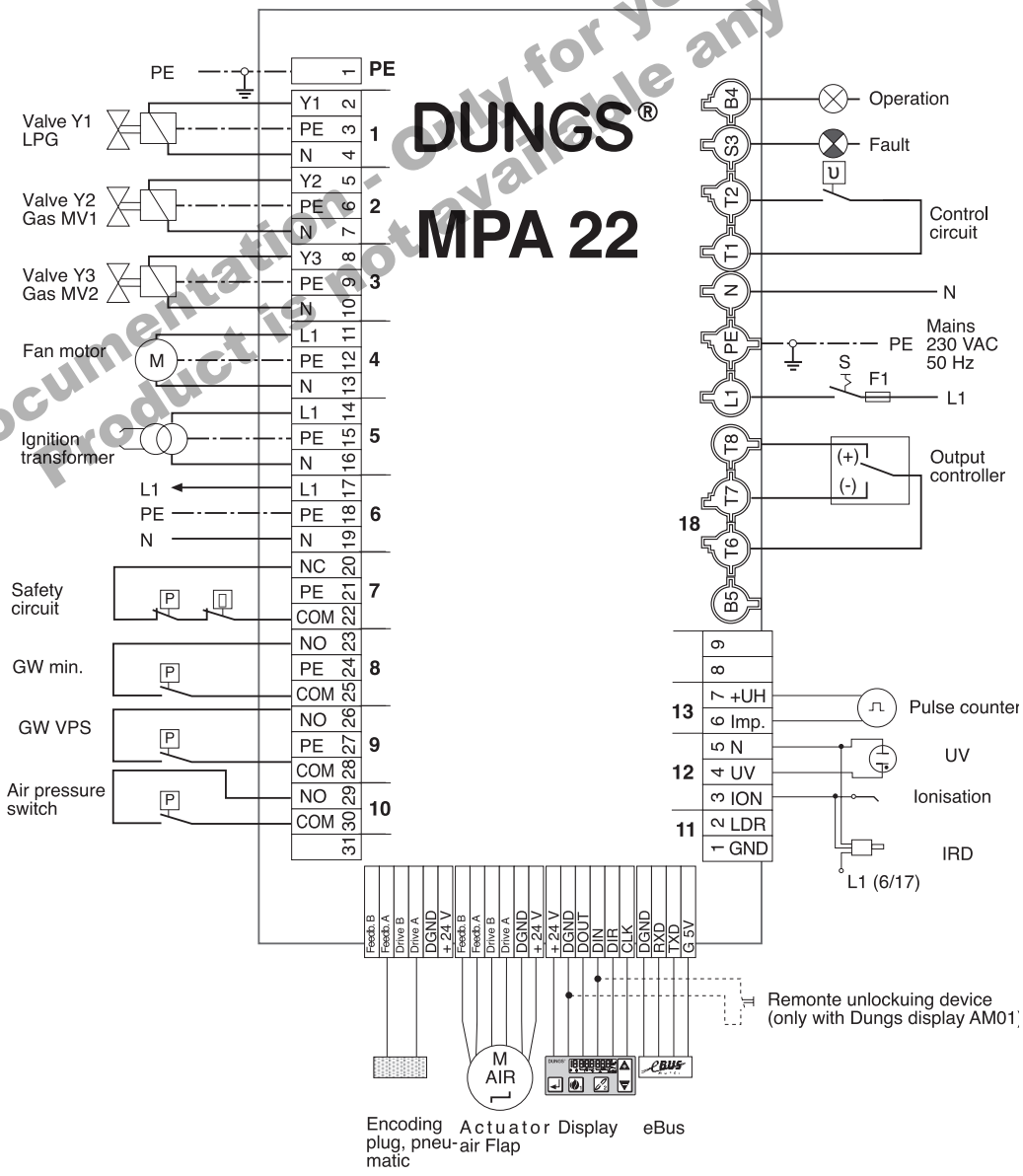


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Gas firing, pneumatic modulation

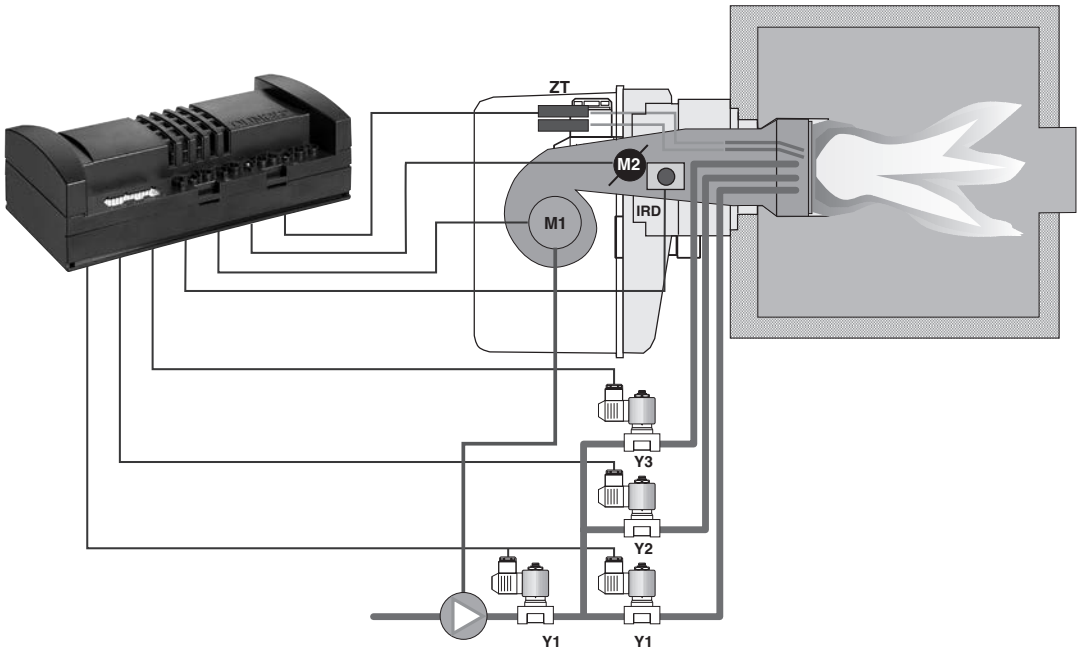


Terminal diagram

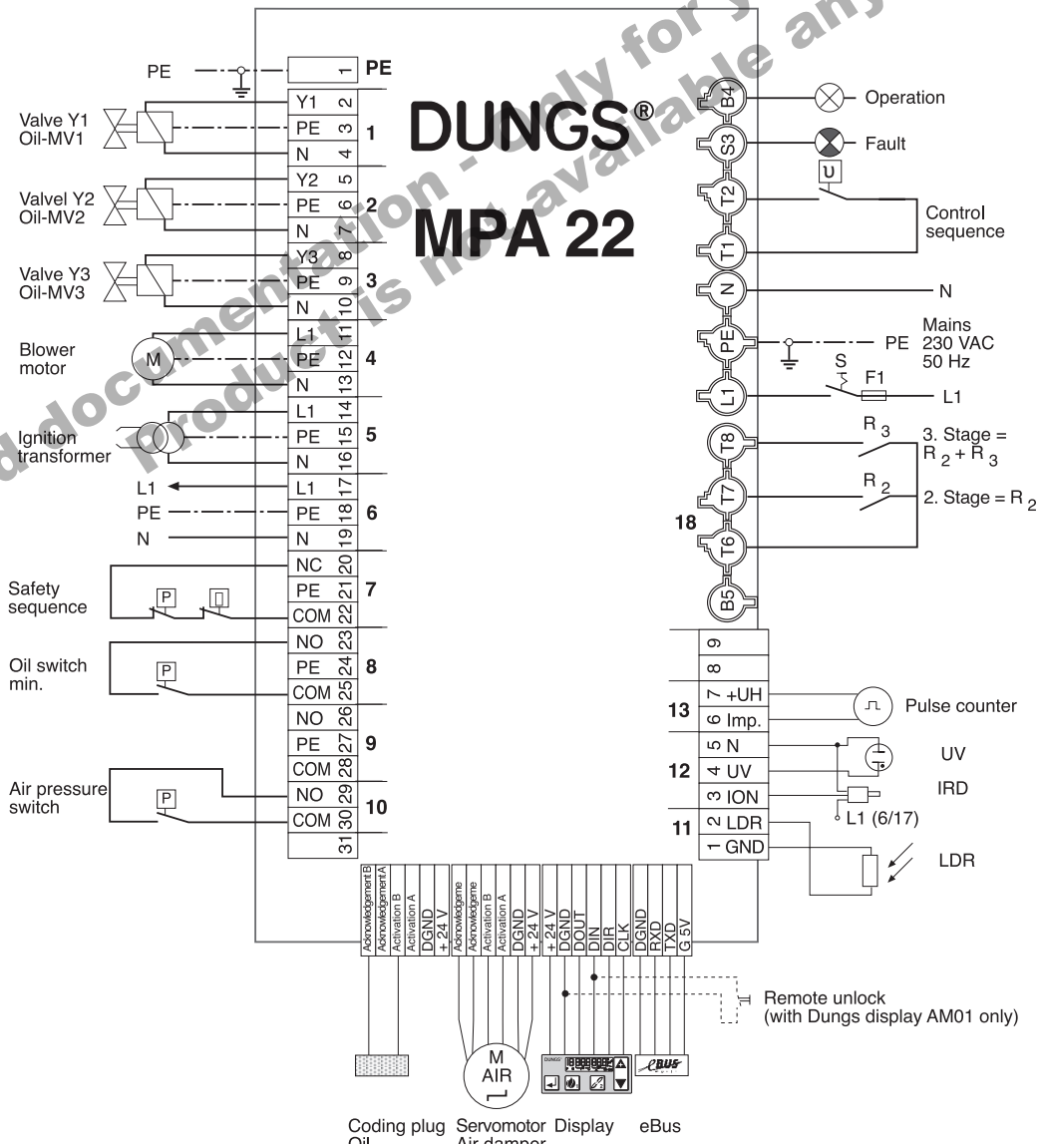


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Oil firing, three stage

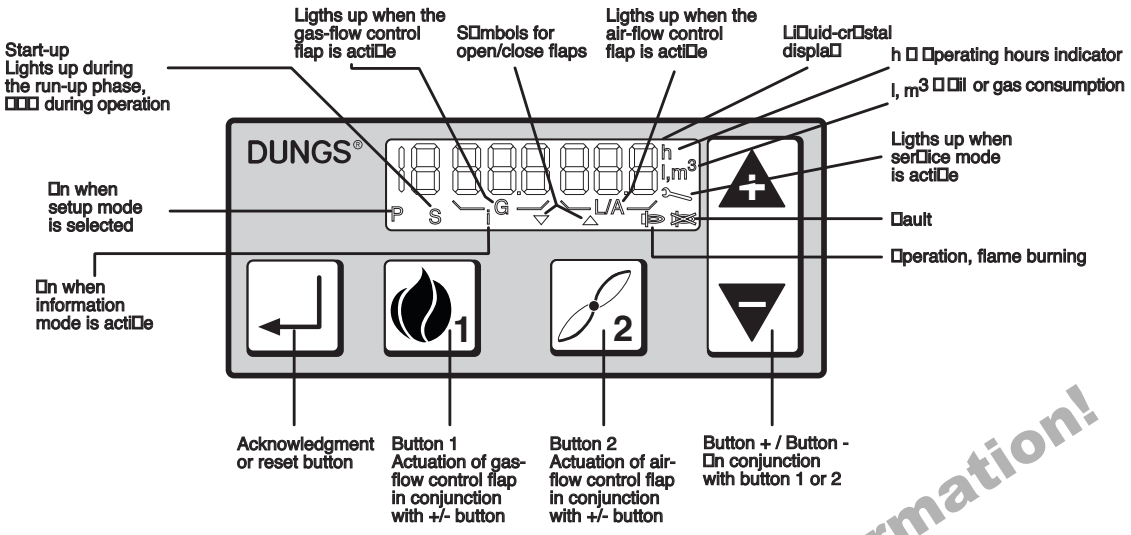


Terminal diagram



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Display
The user-friendly display is used for the rapid adjustment of the complete MPA22 system.
During operation, various system information items are retrievable directly.



Parameter setting mode
In normal state the MPA22 is **always** in operating mode.

- State of the burner
- Display of the angle of the air flapin degrees
- Display of whether the stepping motors are in operation
- Count-down of the pre-ventilation time
- Display in the event of a gas deficiency
- Testing of the stepping motors on startup
- Display standby

Information mode
Information mode can be invoked during operating mode.

- Display of the fuel volume consumed
- Display of the operational hours
- Display of the quantity of successfully performed burner startups
- Display of the software version
- Display of the date the software version was written
- Display of the device number
- Display of the production date

Service mode
Service mode can be invoked during operating mode.

- State of the burner
- Display of the angle of the air flapin degrees
- Display of whether the stepping motors are in operation
- Count-down of the pre-ventilation time
- Display in the event of a gas deficiency
- Testing of the stepping motors on startup
- Display of why the burner is on standby at the moment
- Display modulation rate
- Display preset starting points
- Display controller enable time

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Parameter setting mode
Parameter setting mode can be invoked only during standby and after the input of a **password**.

- Setting the eBUS address
- Setting the post-ventilation time
- Setting the waiting time
- Setting the pulse factor
- Setting the air flap position on standby
- Clearing the error memory
- Switching on and off the valve testing system
- Changing the valve testing times
- Switching on and off the failure controller function on an oil burner
- Change of direction of rotation
- Modulation speed reduction
- Setting the controller enable time

Setup mode
Setup mode can be reached only after the input of a **password**.

- Presetting the characteristic line when the burner is not burning
- Automatic calculation of the interpolation points
- In burning condition, correction of the gas and air points on the characteristic line and of the
- Setting the bottom limit (bu)
- Setting of the top limit (bo)

Error mode
Error mode is active only if the MPA22 has executed a **locking** procedure.

- Display of the error code
- By pressing the plus key other additional error codes can be called

Error mode can be quitted **only** by releasing the proce

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	MPA		
Equipment features • applicable **MPA**	**Combined pneumatic control Gas/air**	**Combined electronic control Gas/air**	**2/3-stage operating mode** **Oil operation**
System-specific fuel/air characteristic, variable	2 reference points 1 ignition point	9 reference points 1 ignition point	2-3 reference points 1 ignition point 1-2 changeover points
Number of actuator drives	1	2	1
Pre-ventilation period, variable	●	●	●
Post-ventilation period, variable	●	●	●
Pre-ignition period, variable	●	●	●
Stabilising time, variable	●	●	●
Safety periods, variable	●	●	●
Restarting	●[1]	●[1]	●
Integrated valve proving system	●	●	—
Variable valve proving times	●	●	—
Air damper actuator standby setting	●	●	●
External oil pump, connectable air pressure switch	—	—	●
eBUS interface	●	●	●
Variable eBUS interface address	●	●	●
Fuel quantity measurement via pulse input	●	●	●
[1] Recording of previous 6 error messages	●	●	●

[1] depending on application

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We reserve the right to make any changes in the interest of technical progress.

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