

Burner control

Self-monitoring and fail-safe burner control for the control of gas and oil burners as well as combined gas/oil burners of any capacity.

Features

- Controlling and monitoring of gas and oil burners of any capacity.
- Suitable for intermittent operation, continuous operation and 72-hour operation according to TRD 604
- Integrated gas valve monitoring system
- Separate outputs for control of gas and oil fuel valves
- Quick fuel change "on the fly" without burner shut down
- Adjustable pre-purge timer
- Integrated flame monitor
- Input for external flame monitor
- Data interface.

Applications

- Chemical industry
- Refineries
- Cement plants
- Waste incinerators
- Steam generators
- Heating plants.

Certifications

- DVGW
- DIN-CERTCO
- UL 372
- FM Class 7610
- AGA: AG 210
- GOST-R.



Functional description

Generally used fuel types and burners require certain synchronised program cycles and safety times for burner start-up which are controlled and monitored electronically with the burner control.

The following program cycles may be selected on the D-GF 150 automatic firing device:

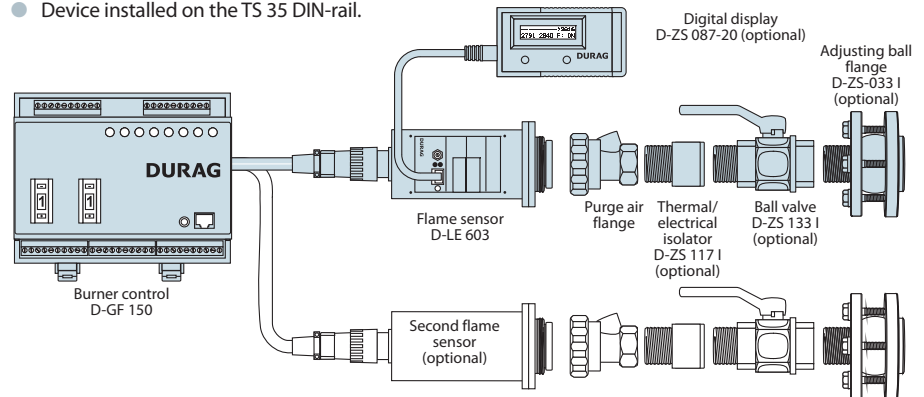
- Gas fuel with boiler pre-purge
- Gas fuel without boiler pre-purge
- Oil fuel with boiler pre-purge
- Oil fuel without boiler pre-purge.

Flame sensors

- D-LE 103 for standard applications
- D-LE 603 for selective flame monitoring
- D-LE 702/703 for special applications with fibre-optic systems
- D-GT 800 for particularly harsh environments
- Flame sensor for use in potentially explosive atmospheres are also available

Design

- Device installed on the TS 35 DIN-rail.



Additional equipment

- **First out annunciator, plain text display, fieldbus communication** (D-AM 150)
- **Digital display** for optimal adjustment of the flame sensors by measuring the pulse rate and its extreme values (D-ZS 087 - 20)
- **Optical adjustment aid** for the alignment of the Swivel mount on the sighting tube (D-ZS 118)
- **LED bar graph display** for the flame intensity (D-ZS 129)
- **UV-C test light source** 230 V / 50 Hz (D-ZS 077-10)
- **UV-A, UV-B and IR test light source** 230 V/50 Hz (D-ZS 093)
- **Swivel Mount** for alignment of flame monitor to the flame to be monitored (D-ZS 033 - I)
- **Thermal isolator** with electrical insulation (D-ZS 117 - I)
- **Ball valve** for closing sighting tube (D-ZS 133 - I)
- **Terminal box** for connecting flame monitor (D-ZS 140 / 141).

Operational mode	Intermittent operation, continuous operation, 72-hour operation without permanent supervision	Pre-purge	30 s...20 min
Safety	Self-monitoring and fail-safe	Flame sensor	1, 2 parallel or external flame
Mains voltage	115/230 VAC , 50 / 60 Hz	Display	LED
Protection	IP20	Flame intensity	0/4...20 mA
Installation	DIN-rail TS 35	Data output	to D-AM 150 / D-ZS 087-20
Threshold setting	0...9	Dimensions Weight	170 x 130 x 114 mm (LxWxH) approx. 1.5 kg