

## Control unit

Self-monitoring and fail-safe control unit for monitoring gas, oil and coal flames with DURAG UV, UV+IR or IR flame sensors, primarily in single burner view applications

### Features

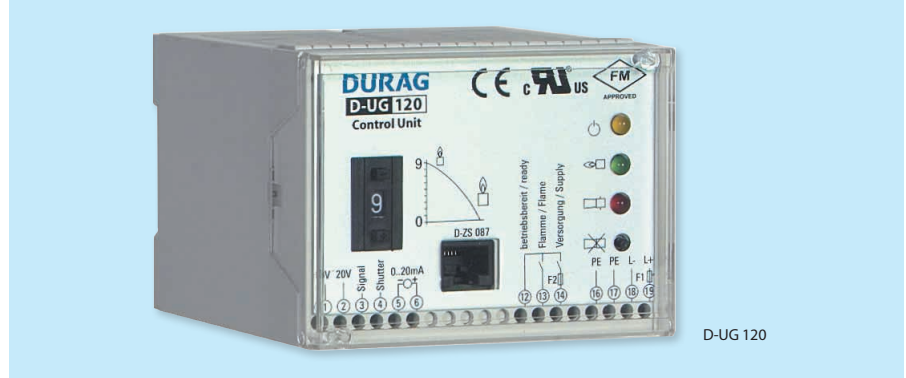
- Suitable for intermittent operation as well as continuous operation
- LED display
- Installation on DIN-rail

### Applications

- Power stations
- Chemical industry
- Refineries
- Cement plants
- Waste incinerators
- Steam generators
- Heating plants

### Certifications

- DVGW
- UL 372
- FM Class 7610
- EAC
- SIL3



D-UG 120

### Functional description

The D-UG 120 control unit analyses the flame radiation via the signal of the flame sensor connected. The easy-to-read LED display shows the operational status of the flame monitor. The flame intensity is present as a current at an output 0/4 ... 20 mA for further analysis.

### Flame sensors

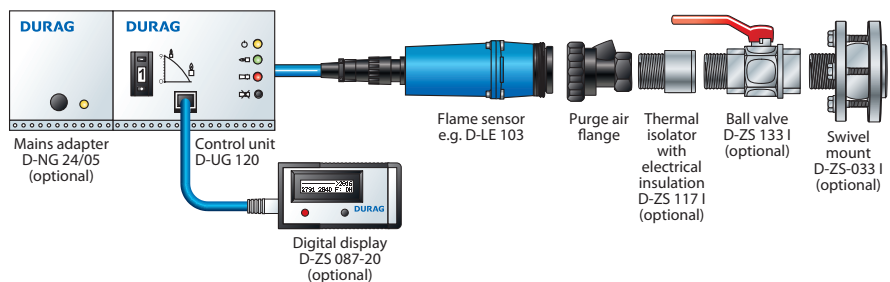
- D-LE 103 for standard applications
- D-LE 603 for selective flame monitoring
- D-LE 701/703 for special applications (fibre optics)
- D-GT 800 for particularly harsh environments
- Sensors for Ex-applications are also available

### Design

- Enclosure for DIN-rail mounting

### Accessories

- **Power supply unit** for connecting the D-UG 120 to 230VAC (D-NG 24/05)
- **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)
- **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
- **Thermal isolator** with electrical insulation
- **Ball valve** for closing sighting tube
- **Terminal box** for connecting flame monitor (D-ZS 140/ 141)



Operation mode	Intermittent operation, continuous operation, 72-hour operation without permanent supervision	Configurable switching thresholds	1
Safety	Self-monitoring and fail-safe	Threshold setting	0 ... 9
Electrical connection	24 VDC, 5 W, PELV	Flame sensor	1
Protection	IP20	Display	LED
Flame relay	1x NO contact, 230 VAC, 2 A	Flame intensity	0/4 ... 20 mA
Status relay	1x NO contact, 230 VAC, 2 A	Perm. ambient temperature	-20 °C to +60 °C
Installation	TS 35 DIN-rail	Dimensions	100x75x118 mm (WxHxD)
FFDT (safety time)	1 s	Weight	approx. 0.45 kg