

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 multi-burner view applications

Features

- Suitable for intermittent operation as well as continuous operation
- Optional parallel operation of two flame sensors in any combination: UV/ UV, UV/IR or IR/ IR
- Three different settings supported for various modes (e.g. dependent on fuel or combustion technology), automatic activation by burner management system
- Plain text display

Applications

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

Certifications

- DVGW
- UL 372
- FM Class 7610
- AGA: AS 4625
- EAC
- SIL3



D-UG 660

Functional description

The D-UG 660 control unit analyses the flame radiation via the pulse signal of the flame sensor connected.

The easy-to-read LCD display continually shows information on the defined setting and operational status.

The flame intensity and signal are present at two current outputs 0/4 ... 20 mA for further analysis.

Flame sensors

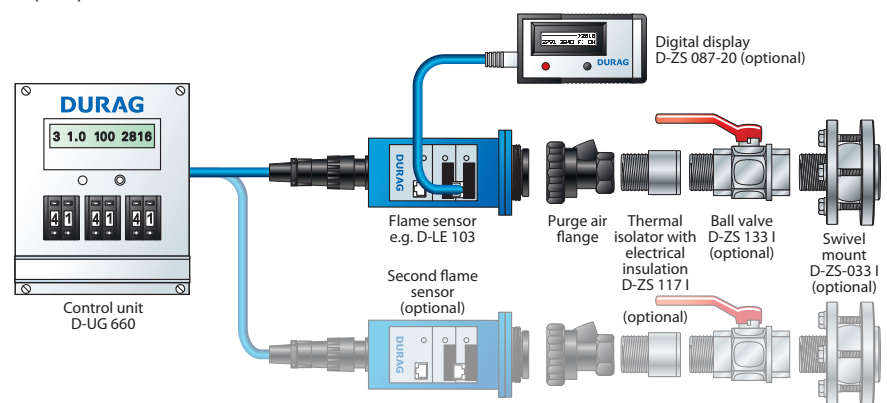
- D-LE 103 for standard applications
- D-LE 603 for selective flame monitoring
- D-LE 701/ 703 for special applications (fibre optics)
- D-GT 800 for particularly harsh environments
- Sensors for Ex-applications are also available

Design

- Plug-in module (21HP and 3RU) for 19" racks (IP00)

Accessories

- **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 isolation
- **Ball valve** for closing sighting tube
- **Terminal box** for connecting flame monitor (D-ZS 140/ 141)
- Various **enclosures and racks** for 1 to 4 devices



Operation mode	Intermittent operation, continuous operation, 72-hour operation without continual supervision	Pre-configurable combinations of switching threshold and safety time	3
Safety	Self-monitoring and fail-safe	Flame sensor connection	1 or 2 (parallel)
Electrical connection	24/ 48 VDC, 115/ 230 VAC	Display	alpha-numeric LCD display
Protection	IP00	Flame intensity	0/4 ... 20 mA
Flame relay	1x switch-over contact, 230 VAC, 2 A	Flame signal	0/4 ... 20 mA
Status relay	1x switch-over contact, 230 VAC, 2 A	Perm. ambient temperature	-20 °C to +60 °C
Threshold setting	00 ... 99	Dimensions	19" plug-in module, 3 RU, 21 HP
FFDT (safety time)	1 ... 5.5 s	Weight	approx. 1 kg