

Compact flame monitor

Self-monitoring and fail-safe compact flame monitor for the monitoring of gas, oil, and coal flames with integrated UV or IR flame sensor.

Features

- Wide sensitivity range
- For ambient temperatures from -40°C up to +85°C
- Dual channel design throughout
- Measurement of flame flicker frequency
- Selective to individual burners and fuels.

Applications

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

Certifications

- DVGW
- SIL3.



SIL 3

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DURAG smart solutions for
GROUP combustion and environment



D-LX 200

Functional description

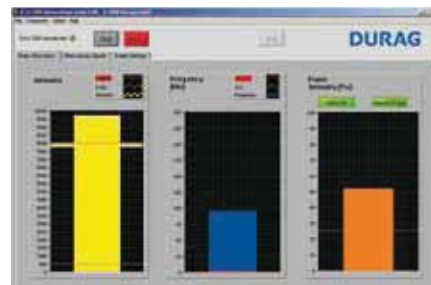
The D-LX 200 compact flame monitor analyses flame radiation using the integrated flame sensor signal.

Current output 0/4...20 mA available for further analysis.

Flame properties and parameters of the flame monitor can be transmitted to a PC via a RS485 and an IrDA interface.

Design

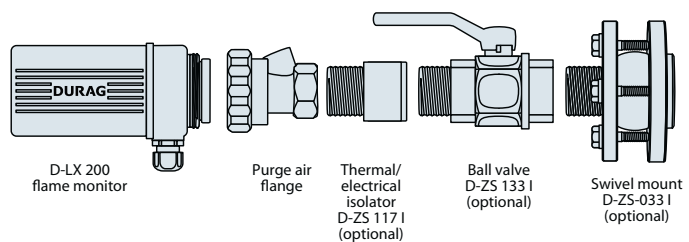
- Integrated compact device.



User interface of the flame monitor software

Accessories

- **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-A, UV-B and IR-test light source** 230 V/50 Hz (D-ZS 093)
- **Swivel mount** for the alignment of the flame monitor (D-ZS 033 - I)
- **Thermal isolator** with electrical insulation (D-ZS 117 - I)
- **Ball valve** for closing the sighting tube (D-ZS 133 - I)
- **Terminal box** for connecting the flame monitor (D-ZS 140-12)
- **Power supply unit** for supply of up to two D-LX 200 (D-NG 24/05).



D-LX 200 flame monitor

Purge air flange

Thermal/ electrical isolator D-ZS 117 I (optional)

Ball valve D-ZS 133 I (optional)

Swivel mount D-ZS-033 I (optional)

Operational mode	Intermittent operation and continuous operation	Communication	LED, Modbus RTU, IrDA
Safety	Self-monitoring and fail-safe	Analogue output	0/4...20 mA
Auxiliary supply	24 VDC	Ambient temperature range	-40...+85°C
Protection class	IP65	Dimensions Weight	85x85 mm,length approx. 250 mm approx. 1.25 kg
Flame relay	1x NO contact, 24 VDC, 0.5 A	Sighting tube connection	G 1 1/4" or 1 1/4" NPT(F)
Status relay	1x NO contact, 24 VDC, 0.5 A	Purge air connection	G 1/2" or 1/2" NPT(F)
Safety time	1, 2, 3, 5 s	Spectral ranges	UV, IR
Viewing angle	6°	Threshold switches	Flame intensity and flicker frequency
Ranges	2		