

Compact flame monitor with fibre optic system

Application with

- flexible fibre optic system
D-LL 703
- or rigid fibre optic system
D-LL 704

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

- Burners with difficult installation conditions for conventional flame sensors or on those whose ambient temperature near the sighting tube is too high
- 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 720

Functional description

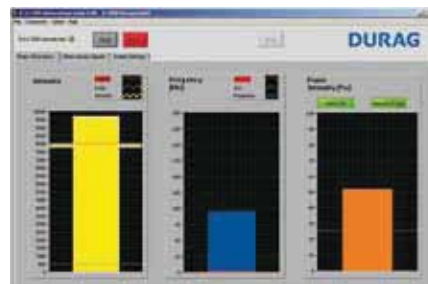
The D-LX 720 compact flame monitor analyses flame radiation using the integrated flame sensor signal.

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

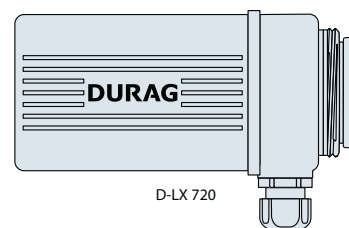
- Integrated compact device.



User interface of the flame monitor software

Accessories

- **LED bar graph display** for the flame intensity (D-ZS 129)
- **Terminal box** for connecting the flame monitor (D-ZS 140-12)
- **Installation flange** for D-LL 703 fibre optic system (D-ZS 703)
- **Welding flange** for D-LL 704 fibre optic system (D-ZS 704)
- **Power supply unit** for supply of up to two D-LX 720 (D-NG 24/05).



D-LX 720

Operational mode	Intermittent operation and continuous operation	Ranges	2
Safety	Self-monitoring and fail-safe	Communication	LED, Modbus RTU, IrDA
Auxiliary supply	24 VDC	Analogue output	0/4...20 mA
Protection class	IP65	Ambient temperature range	-40...+85°C
Flame relay	1x NO contact, 24 VDC, 0.5 A	Dimensions	85x85 mm, length approx. 175 mm
Status relay	1x NO contact, 24 VDC, 0.5 A	Weight	approx. 1.25 kg
Safety time	1, 2, 3, 5 s	Spectral ranges	UV, IR
Viewing angle	6°	Threshold switches	Flame intensity and flicker frequency

