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
- FM Class 7610
- GOST-R
- SIL3.

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D-LX 720

Functional description

The D-LX 720 compact flame monitor is electronically identical to the D-LX 200. It 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.
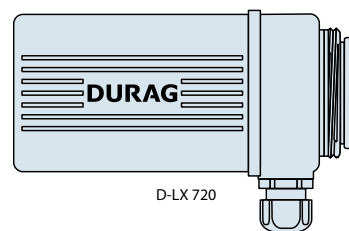

User interface of the flame monitor software

Design

- Integrated compact device
- Plug connection (/MP)

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	IP66/68, IP65 (/MP)	Ambient temperature range	-40...+85°C
Flame relay	1x NO contact, 24 VDC, 0.5 A	Dimensions Weight	85x85 mm, length approx. 175 mm approx. 1.25 kg
Status relay	1x NO contact, 24 VDC, 0.5 A	Spectral ranges	UV, IR
Safety time	1, 2, 3, 5 s	Threshold switches	Flame intensity and flicker frequency

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