

Compact flame monitor

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

Features

- Suitable for continuous operation and 72-hour operation according to TRD 604
- Compact design, flame sensor and control unit in one enclosure, takes up no space in control cabinet
- LED display for settings and operational status
- ATEX approved (D-LX 100 .../94 Ex for zone 1 and D-LX.../97 Ex for zone 2).

Applications

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

Certifications

- DVGW
- APAVE
- UL 372
- FM Class 7610
- AGA: AG 210
- GOST-R
- PTB (ATEX).



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DURAG GROUP smart solutions for **combustion and environment**



D-LX 100

Functional description

The D-LX 100 flame monitor analyses flame radiation using the integrated flame sensor signal. The flame intensity is present as a current at one output 0/4...20mA for further analysis.

Design

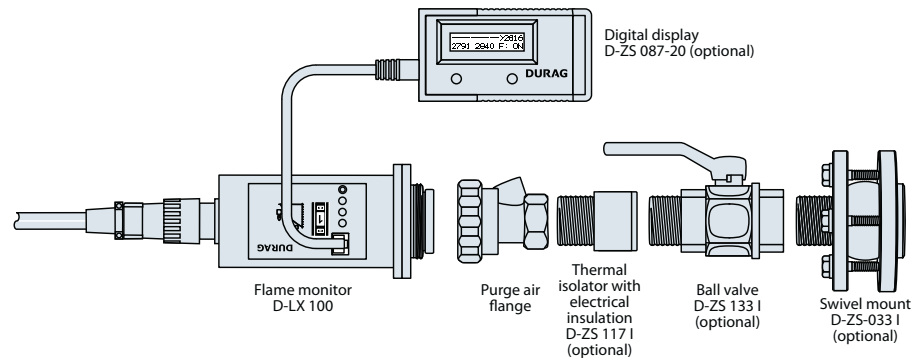
- Integrated compact device.



D-LX 100 / 94 Ex
 D-LX 100 / 95 Ex

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 (D-ZS 033 - I)
- **Thermal isolator** with electrical insulation (D-ZS 117 - I)
- **Ball valve** for closing sighting tube (D-ZS 133 - I)
- **Terminal box** for connecting the flame monitor (D-ZS 140 / 141)
- **Power supply unit** to supply two D-LX 100 (D-NG 24/05).



Operational mode	Intermittent operation, continuous operation, 72-hour operation without permanent supervision	Flame intensity	0/4...20mA
Safety	Self-monitoring and fail-safe	Perm. ambient temperature	-20...+60°C
Auxiliary supply	24 VDC	Dimensions / Weight	90 x 92 mm, length approx. 350 mm / approx. 1.8 kg
Protection class	IP67	Sighting tube connection	G 1 1/4"
Flame relay	1x NO contact, 230 VAC, 2 A	Purge air connection	G 1/2"
Status relay	1x NO contact, 230 VAC, 2 A	D-LX 100 Ex	
Safety time	1, 3, 5 s	Ex-protection optional optional optional	II 2G Ex de IIC T5/T6 Class I, Div. 1, Group B, C & D Class I, Div. 2, Group A, B, C & D II 3G Ex nAnC IIC T6
Spectral ranges	UV, VIS, IR	Dimensions Weight	Ø130 mm, length 313 mm approx. 4.3 kg
Viewing angle	6°	Sighting tube connection	G 1"
Number of ranges	1	Protection class	IP65
Switching threshold	0...9		
Display	LED display		

