

Flame monitor

Particularly cost-effective, fail-safe flame monitors for the monitoring of gas and oil burners as well as combined gas/oil burners.

Features

- monitoring of gas and oil burners of any load
- suitable for intermittent operation and continuous operation (only AAL 75 POD)
- simple installation on TS 35 DIN-rail.

Applications

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

Certifications

- DVGW (not D-IR 55)
- UL 372 (not AAL 75)
- FM Class 7610



AAL 75



D-IR 55



D-UV 55

Functional description

The flame monitor comprises of a control unit and flame sensor.

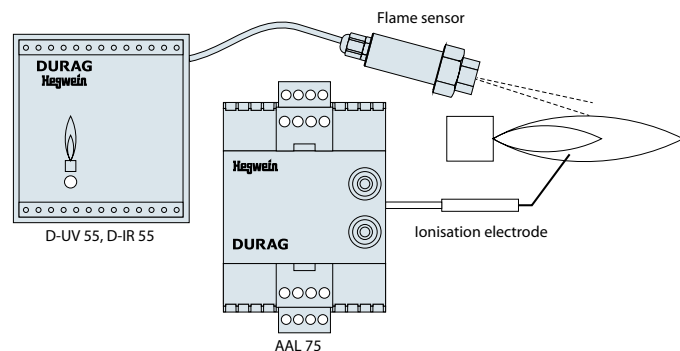
- Optical flame sensors generate a signal from the UV or IR range of the flame radiation
- Flame sensors with an ionisation electrode process a current flowing through the flame

Models

- **AAL 75**
Ionisation flame monitor for intermittent or continuous operation.
Also suitable for single electrode operation in conjunction with DURAG ignition transformers, model D-HG 55.
- **D-IR 55**
Infra-red flame monitor for intermittent operation.
Analyses flame intensity (flickering) in conjunction with the D-LE 55 ISF-CG flame sensor.
- **D-UV 55**
UV flame monitor for intermittent operation.
Analyses the flame intensity in conjunction with the D-LE 55 UL-CG flame sensor.

Accessories

- **Cable** for connecting the ionisation electrode to the ionisation flame monitor (kleZ912F0)
- **Ball valve** for closing the sighting tube (D-ZS 133 III)
- **Swivel mount** for alignment of the flame sensor to the flame to be monitored (D-ZS 033 III)
- **Test light source** for D-UV 55/D-LE 55 for functional test of the flame monitor, battery operated (D-ZS 091).
- **Test light source** for D-IR 55/D-LE 55 ISF-CG for functional test of the flame monitor, voltage supply 115/230 VAC / 42-60Hz (D-ZS 093)
- **Thermal isolator** with electrical insulation for D-LE 55 UL-CG and D-LE 55 ISF-CG flame sensor (D-ZS 117 III).



Flame monitor (control unit)		Flame sensor	
Type	AAL 75	D-IR 55 / D-UV 55	
Operational mode	Intermittent operation	Intermittent operation	Spectral sensitivity
Supply voltage	115 / 230 VAC, 50 / 60 Hz	115 / 230 VAC, 50 / 60 Hz	D-LE 55 ISF-CG: 790 – 1050 nm D-LE 55 UL-CG: 190 – 270 nm
Perm. ambient temperature	-20...+60°C	-20...+60°C	Perm. ambient temperature
Safety time	1 s	1 s, 3 s or 5 s	Mounting
Display	LED	LED	G 1" or G ½"
Protection	IP20	IP20	Protection
Flame relay	2 relay outputs: 250 VAC / 350 mA and 250 VAC / 2 A	1 relay output: 250 VAC / 2 A	Dimensions
Installation	TS 35 DIN-rail	TS 35 DIN-rail	Ø27 mm, length 116 mm
Dimensions	68x119x104 mm (WxHxD)	75x118x70 mm (WxHxD)	Weight
Weight	0.55 kg	0.3 kg	0.45 kg



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