



System 3000

Flame monitoring for gas turbines

**Fore sure
high availability**

- __DIN DVGW, DIN-CERTCO registered, TÜV approved*
- __Fail-safe design, selfchecking*
- __Oil, natural- and coke oven gas with one scanner*
- __Diffusion- and ABM operation*
- __Switch-off times from 50ms*
- __Sturdy fibre optic system*
- __Temperatures up to +300°C*
- __Also available in Ex-protection*



LWL – Flame scanner

This extremely sturdy optical fibre version permits the use of this very modern designed flame monitoring system especially at gas turbines.

Ambient temperatures of up to + 300°C and vibrating sight tubes are no problem for the stable constructed LWL-probes.

Compared to conventional flame scanners, these probes do not require any cooling air since the scanner technique is not mounted on the combustion chamber. The fibre optics have a lengths of up to 10m and are protected against mechanical affection by a special sturdy protective sleeve. This system is a modular construction and maintenance-free. Probe, fibre optics and scanner form one complete unit which is connected to the long-time approved flame control devices of system 3000.



Compact Flame Controller

The flame controllers evaluate the intensity signals of the flame scanners and furnish the information "flame-on" by means of a relay contact. The analog output of 0/4-20mA indicates the signal intensity of the flame.

In addition to these long-time approved flame controllers of system 3000, a fast operating flame monitoring amplifier 3016 as well as a fast operating evaluation amplifier SBE 3015 are available, which indicate the

flame-off "on"- signal in less than 50ms.

This system meets the safety requirements for steam generators TRD 411-414, TRD 604 and EN 230 and EN 298, and is TÜV-approved and DIN-CERTCO and DIN-DVGW certified.

Detailed information can be taken from the individual technical data sheets.