

## Questionnaire for Selection of Flame Monitors (1/2)

Customer/Partner	_____	Date	_____
Contact person	_____	Preferred contact method	
Project	_____	Tel.	Email
	_____		_____

### Plant Details

Plant type	_____			
Load of individual burners	_____ MW			
Burner layout	Front	Boxer	Corner	
	Ceiling	Floor	Others _____	
Number of burners at plant	_____ pcs			
Alignment of burners	_____ pcs vertical	_____ pcs horizontal		
Distance between burners	_____ m vertical	_____ m horizontal		
Dimensions of furnace (LxWxH)	_____ m	x	_____ m	x _____ m
Distance btw. flame & flame monitor	_____ m	Expected flame length	_____ m	
Sighting tube length	_____ m	Sighting tube diameter	_____ mm	
Burner type	Igniter	Pilot burner	Main burner	
	Start-up/heat-up burner		Fluidized bed burner	Others _____

### Specification of Fuel and Process

Fuels	Gas _____	Coal _____	Oil _____	Others _____
For oil: type of atomization	Steam	Air	Pressure	Others _____
Operational mode	Intermittent	Continuous		
Combustion	Low NO <sub>x</sub>	Exhaust recirculation		
Required accessory	Burner control	Ignition device		

### Environmental Conditions

Ambient temperature	Minimum _____ °C	Maximum _____ °C	Average _____ °C
Area of installation	Indoor	Outdoor	Off-Shore

### Required Certifications / Type Approvals

DVGW	ATEX	IECEX	FM
UL	AGA	GOST	Others _____

### Attached Documents

Fuel composition	Furnace/burner drawing
Climate conditions	Others _____

## Flame Monitor Details

Existing flame monitor Make \_\_\_\_\_ Type \_\_\_\_\_

### Flame Monitor Requirements

Flame monitor design Flame sensor with separate control unit Compact flame monitor

Fiber optic version Yes No

If yes, length of fiber optic \_\_\_\_\_ m flexible length \_\_\_\_\_ m rigid length

Planned sensor type UV IR UV&IR

Expected wave length \_\_\_\_\_ nm to \_\_\_\_\_ nm

Monitoring mode Burner selective Fuel selective Furnace monitoring  
Pilot burner selective

886F/æafety time) \_\_\_\_\_ s

Analog output 0-20 mA 4-20 mA

Supply voltage \_\_\_\_\_ V DC AC \_\_\_\_\_ Hz

Minimum IP-Class Flame sensor IP \_\_\_\_\_ Control unit IP \_\_\_\_\_

Compact flame monitor IP \_\_\_\_\_

### Ex-Protection Flame Sensor / Compact Flame Monitor

ATEX Zone  II Ex II T

NEC 500 Class Division Group T

Yes No

Please specify the minimum requirement for Ex-protection (zone, category, type of protection, group, gas group, temperature class)

Please specify the minimum requirement for Ex-protection (class, division, gas group, temperature class)

### Ex-Protection Control Unit

Viewing window Yes No

ATEX Zone  II Ex II T

NEC 500 Class Division Group T

Yes No

Please specify the minimum requirement for Ex-protection (zone, category, type of protection, group, gas group, temperature class)

Please specify the minimum requirement for Ex-protection (class, division, gas group, temperature class)

## Installation Details

Electr. connection flame sensor/compact flame monitor Cable gland Plug

Length of cable: flame sensor ↔ control unit/ compact flame monitor \_\_\_\_\_ m

Sighting tube connection \_\_\_\_\_

Position/line of sight to flame Axial <20° <90° \_\_\_\_\_ ° Opposite

Others \_\_\_\_\_

Optional accessories Swivel Mount Thermal/electr. insulator Ball valve Others

Mounting of control unit

Number of control units per rack/enclosure \_\_\_\_\_ pcs

## Additional Information

**This form can be sent directly from the "File" menu!**