

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_x 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!