

Emission monitoring system for SICF 200 – SICF 1000 combustion plants

Technical data sheet

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Complete emission monitoring system consisting of:

1 pc. Heated sample probe,

180°C self regulated with weather protection

10m Heated sampling line 200°C

1 pc. Complete analyzing CONTAINER

Completely installed and tested

consisting of:

Analysing container

Material GRP, colour RAL 7032

Dimension: 2,5 x 2,3 x 2,8m (int. height 2,5m)

Fully integrated instrument cabin. Comprising:

2,500 Ext x 2,300 Ext x 2500 Clear Internal Height

FIRE RESISTANCE

Panel construction complies with BS476, half hour fire resistance (Retention of stability, integrity and insulation). Fire retardant resin is used to provide self extinguishing laminates to BS476 Part 7 Class 2 (Surface spread of flame).

ENVIRONMENTAL PROTECTION

Dust, weather and splash-proof to IP 54 protection rating.

1 No 1000 x 2000 double door complete with:

- Stainless steel hinges
- Internal spring bolts
- Automatic hold open stays
- Nightlatch cylinder locking facility
- Non locking high and low clamp latches and compressive seal
- Vision Panel

Floor construction: GRP membrane / 75 x 50 joists / 18mm ply / non slip gelcoat.

Set of removable lifting eyes with replacement sealing kit.

External Satin finish (GELCOAT)

Colour: RAL 7032 Pebble Grey

Internal finish white GRP

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Building construction to incorporate insulation foam to provide a 'U' Value of 0.3 W/m²oC.

Optional Electrical Installation

1 No 1200mm/40W (4000lm) LED light fitting

1 No IP55 light switch

2 No 3.5 Fujitsu air conditioning units (ASYG12L)

2 No twin switched socket outlet 13A/240V (with RCD protection)

1 No 6 Way metalclad distribution board with isolator and MCB's

Analysers:

1 pc. Dust Monitor EnergyTech 100 (CODEL international)

Optical path length: 0,5-15m

Span: fully selctable in % opacity, extinction, mg/m³

Measuring range programmable

Resolution: 0,1% opacity

Accuracy: +/-2% opacity

Ambient temperature: -20°C to +70°C

Power supply: 76-264V AC. 50/60Hz, 20VA

Protection: IP 65

Construction: Epoxy coated aluminium

Analogue outputs: 2x 4-20mA, programmable, isolated, 500ohm load max.

Logic outputs: 2 x volt free contacts 50v/1A max, configurable as alarm

1 x volt free contact 50V/1A max. for data valid

Display. 32 character alpha numeric back-lit LCD

Air Purge: 60l/min, max. 4bar, dry and oil free

Scope of delivery:

1 Transmitter

1 Receiver

10m Interconnecting cable

1 Signal Processor Unit (SPU)

1 Power Supply Unit (PSU)

2 Purge air connections for instrument air

Accessories incl. sealings and screws

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1 pc. Hotgas multicomponent Gasanalyser GCEM 40E (CODEL international)

Gas Species Options Single or multi-gas measurements available:

Maximum 3 gases from: CO, NO, NO₂, NO_x, SO₂, CH₄ plus gas temperature

Plus optional : CO₂, H₂O, pressure for data normalisation

Measuring units ppm, mg/Nm³, mg/m³, %

Response Time Less than 200 Seconds (T90)- MCERTS Specification

Calibration Automatic and manual zero/span verification

Gas Species

CO, NO, SO₂, HCl

Max Measuring Range 0 - 6000 ppm

Min. Measuring Range 0-100 ppm

Accuracy +/- 2ppm or 2% of span (whichever is greater)

Resolution +/- 1ppm 0.1%

CO₂, H₂O, Oxygen

Measuring range 0 - 25%

Accuracy 0.5% or 2% of span (whichever is greater)

Ambient Temperature -20°C to +50°C

Construction: Corrosion resistant epoxy coated aluminium housing sealed to IP66

1 pc. TOC analyser THERMOFID (SK-Elektronik)

In Fieldhousing

Vacuum system Injectors

Measurement range 0.5 mg org.C/m³

to 100000 mg org.C/m³

Detection limit < 0.01 mg org.C/m³

Response time (T90) < 0.5 s if measured value > 20 mg org.C/m³

< 5.0 s if measured value < 20 mg org.C/m³

Samplegas (self-drawn) ca. 25 l/h with 1013 hPa

Please note:

The customer is responsible to clarify that the system meets the regional laws and regulations.

Because of different worldwide standards, gases and pressure reducers for testgases and fuelgas are not part of this quotation.