



Quote Reference: QXXXX

Crematorium Emissions Monitoring Systems

Budget Quotation

Customer	PJ Combustion Solutions Ltd
Address	Unit N, Churchill Industrial Estate, Churchill Road, Leckhampton, Cheltenham, GL53 7FD
Site Location	TBA
Project	As above
Contact Name	Andrew Hamer
Prepared by	J. Gilbert
Date	22/01/2025

Quote Reference: QXXXX

Project Outline / Objectives

Quotation for Continuous Emissions Monitoring (CEM) of CO, O₂ and Particulates from two cremator units. The system can be supplied with a heated sample probe for monitoring before or on systems with no abatement.

Proposal

Our recommendation is based around use of a cold dry measurement system whereby the gas is conditioned prior to measurement to remove the moisture content. The CO measurements are made by NDIR and the O₂ using Electrochemical Cell technologies.

The CGA12-, Twin Crematorium Gas Analyser has been specifically designed to exceed the statutory continuous emission monitoring requirements of Process Guidance Note 5/2(12) by adopting wider industry best practice, utilising **MCERTS** approved devices for the measurement of CO/O₂ (and optional NO_x). Particulates are Included as an Indicative filter failure device.

The CGA 12-T, Twin bench multi gas analyser has the following key benefits.

Salient Features of the CGA 12-T

- **MCERTS** / QAL 1 according to EN 15267-3
- Mobile IP55 Industrial panel (casters)
- Easy access front and rear doors
- Cold-dry gas analysis
- Addition of NO_x channel (If required)
- Console style panel with optional DAHS
- Compensation for temp, pressure
- Low maintenance requirement
- Auto Zero function
- Integral Moisture Sensor
- Twin optical bench for simultaneous measurements two cremator units using one analyser



Quote Reference: QXXXX

For Particulates we have specified the Indicative PFM13C device.

Salient Features of the PFM13C (Included in offer)

- Indicative Device
- Unparalleled price / performance ratio
- Tri-clamp mount = no tools for removal
- Integrated electronics = no remote head
- 4-20mA Loop driven
- Low maintenance requirement



Quote Reference: Q2986

Technical Proposal

Item	Description	Qty
1	CGA12-T CO & O2 MCERTS Gas Analyser IP55 Panel 600x500x1400mm (W*D*H) Free Standing Console Style with Casters: Twin Bench NDIR MGA 12 Multi-gas Analyser for: CO (IR) and O2 (EC Sensor) Measurements 2 * Sample Gas Pump Twin Path Gas Chiller 1 * Coalescing Filter 2 * Zero / Span solenoid 2 * Peristaltic Pumps Up to 20m PTFE line	1
2	PFM13C Particulate Filter Monitor Indicative Device 24v Loop powered 4-20 mA (to site DCS) (Max operating temp 280 degC) c/w fixing to 1/12" BSP / 1/14" socket	2
3	Heated Sample Probe Integral temperature control Particulate filter 500mm 316L SS probe tube Easy Maintenance	2
Total Twin CO, O2 & Dust		

Quote Reference: QXXXX

Site Services:

Item	Description	Qty
5	Final Installation & Commissioning (Includes Travel Costs) Man Day – Special Rate See scope of works (Page 6)	3

Optional Items:

Item	Description	Qty
6	500mm Kanthal / Inconel probe tube	1

Quote Reference: QXXXX

Scope & Terms:

Customer Works:

Provisional installation of systems:
Supply of suitable indoor location for panel
Supply of isolated 110/230v supply within 5m of Panel location
Supply of signal cable for onward transmission of data (Ethernet, Analogues or Modbus)
Mounting of probe flange on duct
Provision of adequate access platforms for maintenance activities
Provision of suitable cable tray work between probe and panel
Provide safe access for installation / commissioning works
Acceptance by authorities (Third party testing).

Scope of CEM Solutions Work:

Mounting of Panel and Probe
Running of sample line and local cable work (Subject to access being supplied by others)
All terminations within panel and probe
Connection and leak test of fuel and calibration gases.
Power up, function test and commissioning.
Testing of signals.

Terms

Delivery:	XX-XX weeks (depending on qty/factory load)
Prices:	Ex VAT / Ex Wks
Quote Validity:	60 Days
Payment:	30% with order, 60% on delivery to site, 10% after commissioning.
Warranty:	12 Months.

CEM Solutions (UK) Ltd. Standard terms and conditions apply and are available on our website.

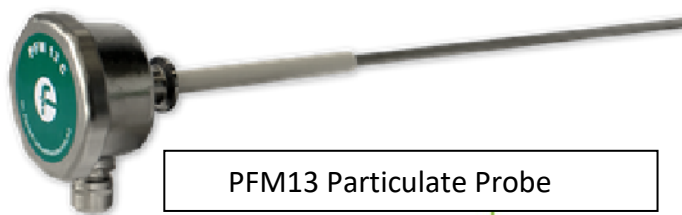
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Quote Reference: QXXXX

CGA12-T - Twin CO, O2 product photo`s:



SP180 Heated Sample Probe



PFM13 Particulate Probe

