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Award

Loughborough University - Gas Analyser

Loughborough University

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Notice identifier: 2025/S 000-084650

Procurement identifier (OCID): ocds-h6vhtk-05f9c0

Published 18 December 2025, 7:05pm

Scope

Reference

LU01017

Description

The equipment is a stack of high-speed emissions gas analysers. The flame ionisation detector (FID) for hydrocarbons, chemiluminescence detector (CLD) for NO,NO₂, and non-dispersive infrared (NDIR) and CO CO₂ have a fast (sub 20 millisecond) response time and are combined in a single heated manifold with calibrated cross interferences for combustion applications meeting industry certified standards. The fast response rate enables area resolved fast traverses in high temperature short time scale combustion facilities, and time resolved measurement of combustion transients, essential for technology development related to future defence platforms.

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<https://www.delta-esourcing.com/delta/viewNotice.html?noticeId=1002033700>

Contract 1. Gas Analyser Equipment

Supplier

- CAMBUSTION LIMITED

Contract value

- £193,865 excluding VAT
- £232,638 including VAT

Above the relevant threshold

Earliest date the contract will be signed

5 January 2026

Contract dates (estimated)

- 9 January 2026 to 9 July 2026
- 6 months, 1 day

Main procurement category

Goods

CPV classifications

- 38000000 - Laboratory, optical and precision equipments (excl. glasses)

Other information

Conflicts assessment prepared/revised

Yes

Procedure

Procedure type

Direct award

Direct award justification

Single supplier - technical reasons

This equipment is unique in its high-speed response (FID & NDIR & CLD) which enables fast traverses for area resolved measurements of HC, CO, CO₂, NO, NO₂ in high temperature short timescale environments, enabling calculation of fuel distribution and temperature distribution within a gas turbine flame. The fast response rate minimises the duration of an emissions map to be completed, which is essential due to the limited supply of compressed air in a blow-down flow facility. The fast response time minimises the time the probe spends within the extreme temperature of a gas turbine flame, which prevents the probes melting or failing. The fast response enables time resolved measurements of transients and dynamics within the flame.

This is the only system available that meets the temporal and therefore spatial resolution

required for the facility.

Supplier

CAMBUSTION LIMITED

- Public Procurement Organisation Number: PBYV-2769-ZXXM

Unit J6 The Paddocks, 347 Cherry Hinton Road

Cambridge

CB1 8DH

United Kingdom

Contact name: Mark Peckham

Email: msp@cambustion.com

Region: UKH12 - Cambridgeshire CC

Small or medium-sized enterprise (SME): Yes

Voluntary, community or social enterprise (VCSE): No

Contract 1. Gas Analyser Equipment

Contracting authority

Loughborough University

- Public Procurement Organisation Number: PRGT-9932-PLJN

Finance Office, Rutland Building

Loughborough

LE11 3TU

United Kingdom

Contact name: Chris Stacey

Telephone: 01509226349

Email: c.n.stacey@lboro.ac.uk

Region: UKF22 - Leicestershire CC and Rutland

Organisation type: Public authority - sub-central government