

ABB EL3000 Continuous Gas Analyser



Attention: **Mr. Paul Jonker**

Company: **South Hook LNG**

Project: **CEMS System**

Your Ref: **CEMS System**

Quotation Ref: **QT-21-01944520.A**

— This quotation presents ABB's offer to deliver the following:

- ABB EL3000 Continuous Gas Analyser
- Packing & Delivery (to UK mainland only)
- Envirosoft Data Acquisition and Handling System (DAHS) (Option A)
- ABB Sample Gas Cooler (SCC-C) (Option B)
- ABB Sample Gas Line (Option C)
- ABB Probe Tube 42 (Option D)

Additional Information

Additional documentation on ABB EL3000 Continuous Gas Analyser is available for download free of charge at www.abb.com/measurement.

Table of Contents

TABLE OF CONTENTS	2
COVERING LETTER, SCOPE OF SUPPLY AND VALIDITY	3
QUOTATION SUMMARY	4
ITEM 1 - ABB EL3000 CONTINUOUS GAS ANALYSER	5
OPTION A - ENVIROSOFT DATA ACQUISITION AND HANDLING SYSTEM (DAHS)	6
OPTION B - ABB SAMPLE GAS COOLER (SCC-C)	7
OPTION C – HEATED SAMPLE GAS LINE	8
OPTION D - ABB PROBE TUBE 42	8
COMMERCIAL CONDITIONS	9
ORDERING INSTRUCTIONS	10
ORDER PROGRESSING	10
SERVICE	10
ABB ABILITY	10

Covering letter, scope of supply and validity

16th June 2021

South Hook LNG

Dale Road, Herbrandston
Milford Haven
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SA73 3SL
United Kingdom

Quotation Ref:	QT-21-01944520.A
Contact name:	Mr. Paul Jonker
Telephone:	+44 (0)1437 782076
Email:	pjonker@southhooklng.com
Your Enquiry Ref:	CEMS System
Valid to:	16/07/2021
Total Sales Price:	£12,854.00

We thank you for your above enquiry and have pleasure in enclosing our quotation, giving the price and delivery of the equipment offered.

Reliable: ABB is a world class manufacturer of analysers & instrumentation

Proven: ABB has been manufacturing gas analysers for many decades

Supported: ABB has one of the largest Process Analytics Service team in the UK

We trust you find our offer of interest; we would welcome the opportunity to meet and discuss this offer in the near future. But should you require any further information then do not hesitate to contact us.

ABB offer a comprehensive range of onsite commissioning and support products that can further enhance your experience of dealing with a UK Instrumentation company.

Yours faithfully,

Neil Holmes

Sector Account Manager – PGA Industrial

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Graduate Proposals Engineer

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Quotation Summary

Main offer

Item	Description	Quantity	Unit Price	Total Price
1	ABB EL3000 Continuous Gas Analyser	1	£12,854.00	£12,854.00
2	ABB Analyser Package Delivery to Site	1	Included	Included
				£12,854.00

Options

Option	Description	Quantity	Unit Price	Total Price
A	Envirosoft Data Acquisition System	1	£14,911.00	£14,911.00
B	ABB Sample Gas Cooler (SCC-C)	1	£2,017.00	£2,017.00
C	Heated Sample Gas Line	1	£7,639.00	£7,639.00
D	ABB Probe Tube 42	1	£3,021.00	£3,021.00

Item 1 - ABB EL3000 Continuous Gas Analyser

Specification

Model	EL3020 – Limas23
Service	NO: 0 – 150 mg/m ³ NO ₂ : 0 – 150 mg/m ³
Technique	Non-Dispersive Ultra Violet (NDUV)
Design	Single Gas Path
Calibration	Calibration Gases
Designation	General Purpose
Housing	19" Rack Mount (IP20)
HMI	Display & Control Unit
Outputs	2 x Analogue Outputs (4...20mA) 4 x Digital Input (DI), 4 x Digital Output (DO) Ethernet (TCP/IP)
Power Supply	230 V AC , 50 Hz...60 Hz



For the latest data sheets, IOM manuals, certification and software, [click here](#)

Technical Notes

- ABB UK's scope of supply is for the EL3000 analyser *only*.
- This analyser has been configured for a general-purpose area. Customer to confirm before Purchase Order (PO) placement.
- This analyser has been configured for 19" Rack Mount housing. Customer to confirm before Purchase Order (PO) placement.
- Customer to confirm the power supply before PO placement.
- The concentration of water must be at 0.75 Vol% before entering the analyser – a cooler may be required. This can be offered at the time of a firm quotation request.
- Sample handling components have not been included - ABB can offer these at a later date, should the customer require.
- This is a budget quote and the stream composition shown below may not be representative of the application. The customer must fill in the composition part of the MPDS to more accurately reflect the price and the duty of the analyser.

Stream Composition table

Chemical Component	Formula	Minimum Concentration	Typical Concentration	Maximum Concentration	Measuring Range	Unit	Component being Measured
Nitric Oxide	NO	0	70	150	0 – 150	mg/mg ³	Yes
Nitrogen Dioxide	NO ₂	0	37	150	0 – 150	mg/m ³	Yes
Carbon Dioxide	CO ₂	-	20	-	-	Vol%	No
Water	H ₂ O	-	0.75	-	-	Vol%	No
Sulphur Dioxide	SO ₂	-	10	-	-	mg/m3	No
Nitrogen	N ₂	-	79.24	-	-	Vol%	No

Price, Quantity & Ordering Text

Item	Description	Quantity	Unit Price	Total Price
1	ABB EL3000 Continuous Gas Analyser	1	£12,854.00	£12,854.00

Option A - Envirosoft Data Acquisition and Handling System (DAHS)

Specification

Model	Envirosoft Data Acquisition System
Includes	CEMSuite Power Software Package MODBUS TCP/IP enablement Fully configured PC DSU 24V dc Power supply ADAM 5000/L 4-way Ethernet base unit ADAM 5017 – 8 Analogue in 4-20mA module ADAM 5051 (S or D) – 16 Digital inputs ADAM 5024 – 4 Analogue outputs



Technical Notes

- The equipment will be mounted in a mild steel panel (600 x 600 x 210) with power distribution and connection terminals.
- A second fully Configured PC can be quoted as an option if required upon customer request.
- Commissioning costs not included.

Price, Quantity & Ordering Text

Option	Description	Quantity	Unit Price	Total Price
A	Envirosoft Data Acquisition and Handling System (DAHS)	1	£14,911.00	£14,911.00

Option B - ABB Sample Gas Cooler (SCC-C)

Specification

Model	SCC-C Sample Gas Cooler Unit
Part No.	23070-0-10110110000
Design	Wall Mount Housing (½ 19" Width)
Preparation	Without
Heat Exchanger	Glass
Gas Paths	1 x Gas Path, 250 l/h
Condensate Drain	Without
Display	Temperature Display and monitoring and PT100
Power Supply	230 V AC, 50...60Hz
Approval	Without

For the latest data sheets, IOM manuals, certification and software, [click here](#)

Technical Notes

- ABB UK scope of supply is for a sample gas cooler (SCC-C) *only*.
- This is a configuration of a generic cooler – customer to advice suitability before PO placement.
- This cooler has been configured for a general purpose area. Customer to confirm before PO placement.

Price, Quantity & Ordering Text

Option	Description	Quantity	Discounted Price	Total Price
B	ABB Sample Gas Cooler (SCC-C)	1	£2,017.00	£2,017.00

Option C – Heated Sample Gas Line

Specification

Model	TBL01-S (Length: 50m)
Catalog No	23283-431E17
Heating	Fixed resistor heating strip
Sample Tube	8 x 6 x 1 mm (PTFE)
Material of Sheathing	Plastic hose of PA (Outside and indoors installation)
Connections	PTFE Caps with 6/4- SS connectors on both sides
Control	1 x PT100
Max Holding Temp	200°C
Heat Output	90 W/m
Power Supply	400/230 V AC, 50 Hz...60 Hz

Technical Notes

- Power Supply must be confirmed by the customer, prior to Purchase Order (PO) placement.
- Length configured for 50m. This must be confirmed by the customer, prior to Purchase Order (PO) placement.

Quantity & Price

Option	Description	Quantity	Unit List Price	Total List Price
C	Heated Sample Gas Line	1	£7,639.00	£7,639.00

Option D - ABB Probe Tube 42

Specification

Model	ABB Probe Tube 42
Length	600mm
Power supply	230/115 V, 50...60 Hz

Technical Notes

- Power Supply must be confirmed by the customer, prior to Purchase Order (PO) placement.
- Length configured for 600mm. This must be confirmed by the customer, prior to Purchase Order (PO) placement.

Quantity & Price

Option	Description	Quantity	Unit List Price	Total List Price
D	ABB Probe Tube 42	1	£3,021.00	£3,021.00

Commercial conditions

Delivery

Approximately 14 – 16 working weeks from receipt of a technically and commercially clear P.O. and subject to factory loading. Actual delivery will be confirmed at time of order acknowledgement. Delivery time will be increased by approximately one working week if ABB do not have a customer account set up for providing this scope of supply. The extent of this processing delay is subject to customers' timely response with the required details.

Basis of Pricing

Prices quoted are CPT UK Jobsite, ready for unloading as per Incoterms2020

Currency

UK Pounds Sterling

All prices quoted are based upon exchange of £1 = €1.159. Should the Euro exchange rate vary by more than 3%, ABB reserves the right to revise pricing.

Payment Terms

100% on shipment.

Payment is due end of month plus 30 days from date of invoice, subject to credit approval.

New and/or dormant accounts will be subject to proforma payment terms subject to discussion with ABB.

Note: Terms are negotiable and subject to mutual acceptance.

Part Invoicing

ABB reserve the right to invoice purchase orders by line item when the items are available ex works.

Warranty

24 months from completion of commissioning or 36 months from despatch of equipment from ABB, whichever is the soonest.

Validity

This quotation is valid for 30 calendar days from date of quotation.

Value Added Tax

The prices quoted exclude VAT which will be charged extra at the rate valid at the time of invoice.

Terms and Conditions

This offer is subject to ORGALIME S 2000, General Conditions for the Supply of Mechanical, Electrical and Electronic Products with ABB addendum. The ABB addendum is available upon request or at <https://new.abb.com/uk/about/terms-conditions>. Should you not be familiar with this standard form of contract we would be pleased to send you a copy.

General Notes

- If after submission of ABB's bid or during the term of the agreement there are any measures taken by authorities, by ABB or others in connection with the current coronavirus (Covid-19) outbreak, which affect the performance of the agreement including but not limited to cost and/or time, an equitable adjustment to the agreement must be made – as notified and based on documentation provided by the ABB – to (i) the date of delivery or completion, (ii) the price, which must be increased to compensate ABB for any increase in costs, or (iii) any other of ABB's commitments or obligations taking into account the impact of such measures advised or taken by the WHO, government, authorities, business partners or ABB protecting or intending to protect the Health and Safety of humans. ABB is entitled to terminate the agreement for convenience after 90 days of a measure taken that prevents ABB to comply with the original scheduled performance of the agreement.
- Should ABB identify any significant impact to the project following the UK's departure from the EU, ABB may need to discuss and revise the delivery dates and costs accordingly.
- Unless specifically stated herein, all documentation supplied by ABB will be to ABB scope & standard.
- This quotation is an estimate of requirements based on the customer enquiry documentation and specification. It does not, and cannot, represent the basis of a fixed and firm order without consultation before order placement.
- Any schematic drawings accompanying this quotation are intended for estimation purposes only, and may not reflect the final price or design of the quoted system.
- Any changes to the customer requirements after placement of order will incur an add-cost determined by our manufacturing units. It is therefore recommended that the details outlined in any subsequent purchase order are clearly defined, both technically and commercially.
- ABB reserve the right to perform a credit check and subsequently refuse business upon receipt of a poor/unacceptable credit rating.

All orders should be sent to orders.mp.uk@gb.abb.com and your local area sales contact.

Ordering Instructions

- This quotation is reliant on the Customer verifying that the product offered is in accordance with their requirements & specification.
- Orders can only be processed against terms and conditions stated on this quotation.
- Please use reference **QT-21-01944520.A** in any correspondence or order relating from this quotation.
- All orders should be sent to orders.mp.uk@gb.abb.com and your local area sales contact.

Order Progressing

- Please contact ABB Customer Services with ABB's Sales Order Reference number and/or your PO number:
Telephone: 01480 488606
Email: GB-progressing@abb.com

Service

Do you require ABB Service Support? Unless specifically quoted above, ABB can also offer the following services above and beyond your scope of supply:

- Commissioning of your instrumentation products on site by an ABB Engineer, ensures correct functionality and accuracy.
- Annual service contract, to ensure the instrumentation is calibrated / validated, and to check it is in good working order

Please contact ABB Service for a quotation:

Telephone: 03339 997 996
Email: GB-IAMA.Service.proposals@abb.com

ABB Ability

ABB Ability™ combines ABB's entire portfolio, advanced connectivity and the latest digital technologies to create unparalleled customer value, bringing together over four decades of industrial digital leadership.

Click the icons for below further information on our ABB Ability offerings:-



Dynamic QR Code



MyIB App



MyABB Portal



Remote Assistance



Remote Insights



Condition Monitoring

Please contact your responsible local area sales contact, as indicated in the Covering Letter for further information

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