

On-Site CO₂ Analyzer Requirements Survey

COMPANY NAME:	DATE:
COMPANY REPRESENTATIVE:	PHONE:
EMAIL ADDRESS:	

Please send completed forms to sales@airbornelabs.com or fax to (+1) 732-302-3035

CO₂ ANALYZER TESTING NEEDS

IF YOU HAVE ON-SITE CO₂ TESTING NEEDS, ALI OFFERS A WIDE RANGE OF APPROVED ANALYZER SYSTEMS FOR THIS APPLICATION.

PLEASE CONTINUE ON WITH THIS SURVEY IF ON-SITE ANALYSIS REQUIREMENTS ARE ALSO RELEVANT FOR YOU.
THIS INFORMATION WILL ALLOW US TO RECOMMEND AN EFFECTIVE SYSTEM SOLUTION THAT WILL MEET BOTH YOUR REQUIREMENTS AND BUDGET.

PLEASE CHECK YOUR ANSWER

ADDITIONAL COMMENTS

1	How many purity grades of CO ₂ do you produce?	# OF PURITY GRADES AND THEIR ID'S (EX. ISBT BEV-GRADE - FOOD GRADE - MEDICAL GRADE - WELDING GRADE - OTHER):
2	What is your daily production capacity (Tons Per Day)?	

PLEASE CHECK ALL IMPURITIES THAT YOU ARE CURRENTLY REQUIRED TO TEST.

ALSO, SPECIFY IF YOU PREFER TO TEST BY A CONTINUOUS, ON-LINE ANALYZER OR BY DETECTOR TUBE

		CHECK BELOW IF REQUIRED	ONLINE ANALYZER	DETECTOR TUBE		CHECK BELOW IF REQUIRED	
3	Total Sulfur (TSC)				10		Oxygen (O ₂) Online Analyzer Only
4	Aromatic Hydrocarbon (AHC)				11		Carbon Monoxide (CO) Detector Tube Only
5	Acetaldehyde (AA)				12		Sulfur Dioxide (SO ₂) Detector Tube Only
6	Methanol (MeOH)				13		Phosphine (PH ₃) <small>Note: Only recommended if your CO₂ comes from a Phosphate Rock Source</small> Detector Tube Only
7	Total Volatile Hydrocarbons (THC)			N/A	14		Vinyl Chloride (VCL) <small>Note: Only recommended if your CO₂ comes from Combustion, Phosphate Rock, or Coal Gasification Sources when Detected at Raw Gas Analysis</small> Detector Tube Only
8	Water Vapor (H ₂ O)				15		Hydrogen Cyanide (HCN) <small>Note: Only recommended if your CO₂ comes from Combustion, or Coal Gasification Sources when Detected at Raw Gas Analysis</small> Detector Tube Only
9	NO _x (NO + NO ₂)				16		Ammonia (NH ₃) <small>Note: Only applicable if using an Ammonia Refrigerant System</small> Detector Tube Only

PLEASE CHECK YOUR ANSWER

ADDITIONAL COMMENTS

17	Do you already have a Zahn & Nagel (ZN-49) or similar apparatus for 99.00 to 99.99% v/v CO ₂ Purity Measurements?	YES		NO		
18	Do you require any snow generating equipment (ex. SnowQuik™, or Snow Pelletizer)? If yes, please specify.	YES*		NO		*SPECIFY:
19	Do you require a Sensory Test Kit?	YES		NO		
20	Do you require a Non-Volatile Residue (NVR) and Non-Volatile Organic Residue (NVOR) Test Kit?	YES		NO		
21	Do you have plans for including other impurities in the future? If yes, specify if possible.	YES*		NO		*SPECIFY:

SAMPLING NEEDS

22	Are you going to periodically require LCO ₂ Batch Sample with a cylinder?	YES		NO		
23	Do you have an approved passivated sampling cylinder? If yes, please indicate which type.	YES		NO		*TYPE:
24	Do you have an approved passivated Flash Vaporizing Pressure Regulator?	YES		NO		
25a.	Are you going to require Sample Transfer Lines?	YES*		NO		
25b.	*If so, will you require 1/4" or 1/8" transfer lines?	1/4"		1/8"		

26	How many lines are you going to bring into the analyzer system?	# OF SAMPLING LINES:			
27	Do you have an approved passivated Flash Vaporizing / Pressure Regulator for each line?	YES		NO	
28a.	Do you need tubing for installing new sample lines?	YES*		NO	
28b.	*If yes, do you need Passivated or Stainless Steel tubing?	PASSIVATED		STAINLESS	
29	How long is each transfer line run? Please specify feet or meters per line.	LENGTH:			
30	Do you require a manual sample purge of these lines or prefer a constant purge of the line to ensure a fresh representative sample?	MANUAL		CONSTANT	
ON-SITE ENVIRONMENTAL FACTORS					
31	What are your typical plant hours (i.e. regular business hours, 24/7, etc.)				
32	Do you need an analyzer shed?	YES		NO*	
33	*If no, please specify what type of room / environment you are intending to locate your on-site analyzers. Please include dimensions.	ROOM DIMENSIONS (WIDTH, LENGTH, HEIGHT - PLEASE SPECIFY FT OR METERS):			
34	Is your room / environment climate controlled?	YES		NO	
35	Will this analyzer area be easily vented?	YES		NO	
36	Are you interested in table top rack or mobile floor analyzers? Note: Table Top Rack is a 44" Rack that is placed on a table	TABLE TOP		MOBILE FLOOR	
37	Do you require doors on your table top rack or mobile floor rack for shield against dirt & dust or for anti-tampering measures?	YES		NO	
38	What is the approximate distance from your CO ₂ Production Plant to your analyzer room?	DISTANCE (PLEASE SPECIFY FT OR METERS):			
39	Do you have a local source of Pure Hydrogen Cylinders at your location?	YES		NO	
40	Do you have a local source of Zero Grade Air Cylinders at your location?	YES		NO	
41	Do you already have sampling ports on your storage vessels? If yes, please specify the size & type of the connections.	YES*		NO	*SIZE & TYPE:
42	How close are your electrical utilities?	DISTANCE (PLEASE SPECIFY FT OR METERS):			
43	What are the power ratings for your electrical utilities? (i.e. 120/240, 15/20 amp 60/50 Hz)	POWER RATINGS:			
44	Is your facility prone to power brown-outs, power loss, or does it require a UPS power conditioner?	YES		NO	
45	Please specify your facilities voltage, and what type of Plug and Socket you have. <i>Please refer to last page for examples.</i>	VOLTAGE:			PLUG & SOCKET TYPE:
46	Describe any altitude (barometric pressure) temperature/humidity control factors or any other parameter that might be appropriate for proper instrument performance.				
47	What types of security from tampering, data manipulation, or data access may be needed?				
48	Do you require sending analyzer data from an on-site analyzer to an external device such as a data logger or central data-handling/COA generating system?	YES		NO	
49	Do you need automated control of multi-storage vessel sampling/testing?	YES		NO	
50	If you purchase our DSA, is it possible to remotely access your data station for trouble shooting or software updates?	YES		NO	
51	Are the employees that will work with the analyzer fluent in English? <i>Note: This is for training purposes</i>	YES		NO	
52	Is your testing staff technically trained?	YES		NO	

53	Is your staff prone to high turnover?	YES		NO		
INSTALLATION & TRAINING NEEDS						
54	Are you interested in our on-site installation service?	YES		NO		
55	Please check off which training services you are interested in.	ON-SITE		NEW JERSEY BASED		
		WEBINAR		N/A		
56	Are you interested in a service contract?	YES		NO		
57	What other services might be needed?	Preventative Maintenance		Repair & Maintenance		OTHER:
CALIBRATION GAS STANDARDS REQUIREMENTS						
58	Would you like ALI to provide your Calibration Gas Standards?	YES		NO		
59	Please specify your project deadline requirements.	TIME NEEDED FOR COMPLETION:				
60	Please specify any budgetary considerations (USD) for this project.	COMMENTS:				

Thank you for completing Airborne Labs International's On-Site Analyzer Testing Requirements Survey. Please return your completed survey to: sales@airbornelabs.com or fax to (+1) 732-302-3035