# **ALNG-6000** Automatic/Manual Sampling System



### Introduction

The reporting of LNG components is a very important document for custody transfer (such as loading, unloading, and shipment receipts). Normally the components of LNG are analysed by a Gas Chromatograph (GC) in laboratories, and it is very difficult to get repeatable and representative samples from the pipeline. The ALNG-6000 Automatic/Manual Sampling System delivers the best solution for taking representative LNG samples.

# Sampling System Overview

The ALNG-6000 Automatic/Manual Sampling System is designed to take representative Liquid Natural Gas (LNG) samples from a pipeline using a unique technology which allows a complete gasification of the sample. This in turn fills up the sampler with gaseous Natural Gas. This innovative sampling system has solved some difficult problems such as samples mixed with both gas and liquid, unevenly gasified samples...etc. As a result, the end user can obtain high representative samples for laboratory analysis using the ALNG-6000 Automatic/Manual Sampling System which is in compliance with the ISO 8943 standard.

#### **Characteristics**

- One-click Sampling
- Easy to Operate
- Low Thermal Conductivity
- Nano Volume Sample Probe
- Fast Sampling
- Low Consumption of LNG in sampling process
- High Representative Sample
- Multi-bottle Sampling
- Function of Sample Vacuum and Sample Replacement

# **Customisation Options**

- Probe Material:
- Went:
- Purge Mounting:
- Power Supply:
- Hazardous Area Approvals:
- Ambient Temperature:
- Sampling Time:
- Sampling Pressure:

#### Requirements

- N2: 0.4-1MPa, 2m3/ea. Oil and Water Free; Dew Point <-50° Celsius
- Voltage: 220VAC/50Hz, 1500VA

- **Specifications**
- LNG Pipeline Pressure: Max 2 MPa (20 Bar)
- Temperature:
- < -196° Celsius 1-3 Bottles
- Sample Capacity:
- Sample Probe Mounting: Refer to the Order Parameters







Refer to the Order Parameters (Customised as option)

Refer to the Order Parameters (Customised as option)

220VAC/50Hz 1500VA

Ex d eibpy IICT3 Gb

-20 to +50° Celsius

< 30 min (Hot Start)

0.5MPa (5 Bar)

#### **Other Parameters**

	Haza	rdous Area									
	1	Zone 1									
	2	Zone 2									
		Volt									
		1 110V-120V									
		2	2 220V-240V								
			Purge Gas								
			1	N2							
			2	Oth	er Ga	s (Ar	gon,	, etc.)			
			Sample Probe mounting: (Probe length according to the distance betwee						oetween		
			inner shell pipe and flange)								
				1	ANS	511"	150l	bs			
			2 ANSI 1" 300lbs								
			3 ANSI 2" 150lbs								
			4 ANSI 2" 300lbs								
			5 Other size (customise as option)								
				Vent Connections							
					1	AN	ISI 1'	" 150lbs			
					2	3/8	3″ cu	tting ferrule			
					3	Ot	her s	size (customise as option)			
				Purge Connections							
					1 ANSI 1" 150lbs						
						2	3/8	3" cutting ferrule			
						3	Ot	her size (customise as option)			
							Sai	mple Volume/Bottle			
							1	500mL1 bottle			
							2	500mL 2 bottle			
							3	500mL 3 bottle			
							4	Other size (customise as option)			
								(customer specified):	m		
								Pipe Pressure (customer specified):	MPa		
								Pipe Temperature (customer specified):	°C		
								Ambient Temperature (customer specified):	°C		
ALNG-6000-											

#### Aftersales Care

AGC Instruments are committed to providing and maintaining quality systems from customer liaison to technical knowledge through to System Design and Delivery. With each system manufactured under the auspices of ISO 9001:2015, guaranteed applications are achieved with the utmost quality. To coincide with this, we believe that our After Sales Support to the customer is one of the most important services we can offer. Each Distributor has been carefully selected and trained to ensure our customers receive the best possible service. Furthermore, online customer support and direct support are available to deliver a comprehensive support package.

# **Contact Details**

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