

PROC-FE/CB/PJP-3281/2018

Instructions Completed by: _____
PROCESS ANALYZER APPLICATION DATA Date: 18-04-2018

Customer: _____
 Plant: OGDCL NASHPA Process/Licensors: _____
 Process Component to be analyzed: _____ Analyzer range: _____

NATURAL GAS

-100°F to +100°F HCDP
-110°F to 32°F Moisture
 _____ to _____
 _____ to _____

 PPM % by Weight by Volume Other: _____

MOLAR

Concentration ranges of all components in stream (list all known, even if in ppm range):

	By weight	By volume		By weight	By volume		
C ₁	<u>88.5139</u>	% to <u>82.93</u>	%	ICS	<u>0.008365</u>	% to <u>0.809</u>	%
C ₂	<u>7.4048</u>	% to <u>7.876</u>	%	NCS	<u>0.0</u>	% to <u>0.342</u>	%
C ₃	<u>1.5768</u>	% to <u>3.912</u>	%	C ₆₊	<u>0.0015</u>	% to <u>0.492</u>	%
IC ₄	<u>0.0659</u>	% to <u>0.691</u>	%	CO ₂	<u>1.6590</u>	% to <u>1.558</u>	%
N ₂	<u>0.0470</u>	% to <u>1.126</u>	%	N ₂	<u>0.7303</u>	% to <u>0.764</u>	%

Process conditions at sample tap:

Process connection: _____ Vendor to suggest

Piping orientation for mounting of probe Vertical Horizontal W

Temperature: Normal: 90 Min: 60 Max: 120 Units: °F

Pressure: Normal: 1100 Min: 800 Max: 1250 Units: PSI

Phase(s) (gas, liquid) Gas

Other data (viscosity, unusual surges, contaminants): _____

If vapor phase, dew point _____ Temp: _____ Pressure: _____

Sample boiling point _____ at atm pressure

Are there likely to be any particulates, mists, etc., in the sample? If so, describe: _____

Conditions at analyzer discharge point: As per Hazardous area classification

Process connection: _____

To atmosphere or waste stream at atmospheric pressure

Return to process at: _____ Pressure: _____ Range: _____

Units: _____ at _____ temp

Vent/scrubber (by customer): _____ Pressure: _____ Range: _____ Units: _____

Materials of construction which may be used in contact with sample:

Metals: _____ Plastics: _____

Can you furnish spectrophotometric scans of your sample? (Please attach if available.) YES NO

Lab analysis method: _____

Environment at probable analyzer site (control station assumed to be in a protected area):

Analyzer will be: Indoors Outdoors Temperature range: 125°F to 30°F

Average barometric pressure: 14.66 inHg Solar radiation temperature: 0-55°C

Shelter to be provided by: METEK Others

Conditions analyzer will be exposed to (corrosive or explosive; excessive moisture, dust):

Explosive, Excessive Moisture, Dust

Hazardous area electrical classification:

At analyzer, field unit location:

 General purpose
 Hazardous Class: I Group: D Div/Zone: 2/2 T Class: T1

At analyzer, control station location:

 General purpose
 Hazardous Class: I Group: D Div/Zone: 2/2 T Class: T1
Utilities available:
 120 V 60 HZ
 240 V 60 Hz
 UPS Available
 Other Please specify: _____
 110 V 50 HZ
 220 V 50 Hz
 Instrument Air temperature: 30°C
 Steam pressure: _____
 Nitrogen pressure: 90 PSI
 Clear Water pressure: 50 PSI
 Instrument Air pressure: 110 PSI
Sample system to be supplied by AMETEK?
 Yes. Specify distance from sample tap to probable analyzer site: Vendor to suggest
 any Height: _____ Width: _____ Depth: _____
 Number of sample streams: _____ fluid: _____
 No Specify sample conditions available at analyzer. Inlet pressure: _____ Temperature: _____
 Outlet pressure: _____ Temperature: _____
Analyzer output desired and quantity:
 4 to 20 mA
 Held signal required
 Alarms required
 Relays
 Other: _____
 Type of relay contacts: AC DC
 Computation required for desired outputs (LB/MMBTU, etc.): _____
Sample lines:
 Length: _____
 Length: _____
 Length: _____
 Length: _____

Vendor to suggest.

Quotation to be sent to (if different from above):
 Name: _____
 Title: _____
 Company: _____
 Address: _____
 City/State/Zip: _____
 Phone: _____ Fax: _____
 Date quote required: _____

HCDP Analyzer to be installed at Sales Gas Metering skid. Required Field Cable length is 70m. us per cut parts including signal & alarms as per design.

clarification is mentioned below:

1. Length of Field Cable: 70m
2. Specification of the cable like no. of cores, size should be as per design of Analog Output signals of HCDP Analyzer

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