



SIRJAN JAHAN STEEL
Direct Reduction Plant I & II

TECHNICAL OFFICE

DOCUMENT TITLE

Document No:

Rev.

SJSCO No.:

01

DATE: April-2025


DATA SHEET FOR CO & H₂ GAS
ANALYZER

Request No.:

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DATA SHEET FOR CO & H₂ GAS ANALYZER

DIRECT REDUCTION PLANT I & II

	SIRJAN JAHAN STEEL COMPANY <i>Direct Reduction Plant I & II</i>		TECHNICAL OFFICE
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Gas Analyzer List

Item	Signal Tag	Fluid	Sample connection Qty.	Analyzer Qty.	Operating Pressure (kg/cm2)	Max Temperature (°C)	Measuring Component	Measuring Range	Tubing Length (m)
1	AIT-XA35	Reformed Gas	1	1	1.178	1000	CO	0-50 %	50
	AIT-XA36						H2	0-80 %	50



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P & I DIAGRAM No.:

TAG NUMBER:

AIT-XA35

SERVICE

REFORMED GAS

PRE-CONDITION

GENERAL

TYPE

ELECTRIC COOLER

TYPE

INFRARED

CONNECTION

NPT 1/8" (F)

POWER SUPPLY

220 VAC

INSTALLATION

Plate Mounted

INSTALLATION

INDOOR

SAMPLING PUMP

VTA

CONSTRUCTION

PNL. MOUNTED, IP40

FILTER

GLASS WOOL

CONNECTION

GAS COOLER

ELECTRIC COOLER

ELECTRIC

TERMINAL STRIP

GAS SWITCH BY

MANUAL COCK

PURGE AIR

VTA

PIPING MATERIAL

TEFLON TUBE

WATER

VTA

Sample Inlet Temperature

180 °C (VTC)

ZERO GAS

NPT 1/4" <F>

Total Cooling Capacity

VTA

SPAN GAS

NPT 1/4" <F>

Sample Gas Connection

VTA

EXHAUST

NPT 1" <F>

Sampling Flow

VTA

DRAIN

NPT 1" <F>

ACCESSORY/ MATERIAL

/

AMBIENT TEMP.

-10 - +50 °C

SERVICE CONDITION

Relative Humidity

70%

FLUID

REFORMED GAS

ANALYZER

PRESS. NOR.

1.178 kg/cm2

Manufacturer

ABB

(kg/ cm2) Max. / Min.

MODEL No.

Easy Line EL3040

TEMP. NOR.

940 °C

MEASURING GAS

CO

(C) Max. / Min.

1100

MEASURING RANG

0 - 50 %

AVERAGE M. W.

-

INDICATING RANG

0 - 50 %

DEW POINT C

-

REPEATABILITY

WITHIN ±0.5 % OF F.S.

DUST (mg/Nm3)

200

ZERO DRIFT

WITHIN ±2 % OF F.S./ DAY

MIST

-

SPAN DRIFT

WITHIN ±2 % OF F.S./ DAY

WATER PRESS. (kg/cm2 G)

-

RESPONSE

WITHIN 10 SEC INLET

TEMP. (°C)

-

OUTPUT SIGNAL

4 - 20 mA DC

BLOW BACK FLUID

-

SAMPLE COOLER (Note 2)

VTA

CORROSIVE INDEX

-

CONDENSATE TRAP (Note 2)

VTA

COMPONENT %VOL

-

SOLENOID VALVE (Note 2)

VTA

CO

35.25

FLOW METER (Note 2)

VTA

CO2

2.37

PRESSURE REDUCER (Note 2)

VTA

H2O

5.21

FLAME ARRESTOR

VTA

N2

0.62

BALL VALVES (Note 2)

VTA

O2

0

SAMPLING UNIT

H2

54.65

SAMPLE PROBE

NO

CH4

1.90

TYPE

-

C2H6

-

FILTER ELE.

-

C3H8

-

MATERIAL

-

CnHn

CH2

-

CONNECTION

-

MANUFACTURE DATA

INSERT LEN.

-

MANUFACTURER

HEATER

-

MODEL NO.

BLOW BACK

-

Area Classification:

-

Inlet Shut Off Valve/ Material

Ball Valve / 316 SS

NOTES:

1. VTA: Vendor To Advise, VTC: Vendor To Confirm.
2. This Item should be considered by Vendor for their number and specifications.
3. The analyzer shall be installed in analyzer room.

