



NISOC

نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



DATA SHEETS FOR TEMPERATURE TRANSMITTER/SWITCH

شماره پیمان:

۰۵۳ - ۰۷۳ - ۹۱۸۴

پروژه

BK

بسته کاری

GCS

صادر کننده

PEDCO

تسهیلات

120

رشته

IN

نوع مدرک

DT

سریال

0005

نسخه

D01

شماره صفحه: ۱ از ۷

طرح نگهداشت و افزایش تولید ۲۷ مخزن

DATA SHEETS FOR TEMPERATURE TRANSMITTER/SWITCH

نگهداشت و افزایش تولید میدان نفتی بینک

D01	NOV.2022	IFA	P.Hajisadeghi	M.Fakharian	M.Mehrshad	
D00	MAR.2022	IFC	P.Hajisadeghi	M.Fakharian	M.Mehrshad	
Rev.	Date	Purpose of Issue / Status	Prepared by:	Checked by:	Approved by:	CLIENT Approval

Class: 2

CLIENT Doc. Number: F9Z-708926

status:

IDC: Inter-Discipline Check

IFC: Issued For Comment

IFA: Issued For Approval

AFD: Approved For Design

AFC: Approved For Construction

AFP: Approved For Purchase

AFQ: Approved For Quotation

IFI: Issued For Information

AB-R: As-Built for CLIENT Review

AB-A: As-Built -Approved



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D01

شماره صفحه: ۲ از ۷

REVISION RECORD SHEET

Page	D00	D01	D02	D03	D04
1	X	X			
2	X	X			
3	X	X			
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Page	D00	D01	D02	D03	D04
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NISOC

نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



DATA SHEETS FOR TEMPERATURE TRANSMITTER/SWITCH

شماره پیمان:

۰۵۳ - ۰۷۳ - ۹۱۸۴

پروژه

BK

بسته کاری

GCS

صادر کننده

PEDCO

تسهیلات

120

رشته

IN

نوع مدرک

DT

سریال

0005

نسخه

D01

شماره صفحه: ۳ از ۷

REFERENCE DOCUMENTS :

Specification For Instrumentation

BK-GNRAL-PEDCO-000-IN-SP-0001

Process Basis Of Design

BK-GNRAL-PEDCO-000-PR-DB-0001

Piping Material Specification

BK-GCS-PEDCO-120-PI-SP-0001

Hazardous Area Classification Layout

BK-GCS-PEDCO-120-SA-PY-0002

Instrument & Control System Design Criteria

BK-GCS-PEDCO-120-IN-DC-0002



Symbol & Legend For PFD and P&ID

BK-GCS-PEDCO-120-PR-PI-0001

P&ID - Gas Compression Inlet Gas Pipeline (Binak)

BK-GCS-PEDCO-120-PR-PI-0002

P&ID - Gas Compression Inlet Gas Pipeline (Golghari)

BK-GCS-PEDCO-120-PR-PI-0003

P&ID - Slug Catcher System

BK-GCS-PEDCO-120-PR-PI-0004

P&ID - Gas Compression Inlet Knock Out Drum

BK-GCS-PEDCO-120-PR-PI-0005

P&ID - 1st Stage Gas Compression Suction Drums

BK-GCS-PEDCO-120-PR-PI-0006

P&ID - 1st Stage Gas Compression Compressors

BK-GCS-PEDCO-120-PR-PI-0007

P&ID - 1st Stage Gas Compression Air Coolers

BK-GCS-PEDCO-120-PR-PI-0008

P&ID - 2nd Stage Gas Compression Suction Drums

BK-GCS-PEDCO-120-PR-PI-0009

P&ID - 2nd Stage Gas Compression Compressors

BK-GCS-PEDCO-120-PR-PI-0010

P&ID - 2nd Stage Gas Compression Air Coolers

BK-GCS-PEDCO-120-PR-PI-0011

P&ID - 2nd Stage Gas Compression Discharge Drum

BK-GCS-PEDCO-120-PR-PI-0012

P&ID - Gas Compression Dehydration Package

BK-GCS-PEDCO-120-PR-PI-0013

P&ID - Lean Glycol Storage Tank

BK-GCS-PEDCO-120-PR-PI-0014

P&ID - Instrument & Plant Air System

BK-GCS-PEDCO-120-PR-PI-0015

P&ID - Nitrogen Generation System

BK-GCS-PEDCO-120-PR-PI-0016

P&ID - Close Drain System

BK-GCS-PEDCO-120-PR-PI-0017

P&ID - Corrosion Inhibitor Package

BK-GCS-PEDCO-120-PR-PI-0018

P&ID - Methanol Injection Package

BK-GCS-PEDCO-120-PR-PI-0019

P&ID - LP Flare System

BK-GCS-PEDCO-120-PR-PI-0020

P&ID - Oily Water Sewer

BK-GCS-PEDCO-120-PR-PI-0021

P&ID - Fuel Gas System

BK-GCS-PEDCO-120-PR-PI-0022

P&ID - Diesel Oil System

BK-GCS-PEDCO-120-PR-PI-0023

P&ID - Potable Water System

BK-GCS-PEDCO-120-PR-PI-0024

P&ID - Glycol Sump Drum

BK-GCS-PEDCO-120-PR-PI-0025

P&ID - Fire Water Network

BK-GCS-PEDCO-120-SA-PI-0001

P&ID - Total Flooding System For Extension of Existing Elect. Building

BK-GCS-PEDCO-120-SA-PI-0002



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نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



DATA SHEETS FOR TEMPERATURE TRANSMITTER/SWITCH

شماره پیمان:	پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: ۴ از ۷
۰۵۳ - ۰۷۳ - ۹۱۸۴	BK	GCS	PEDCO	120	IN	DT	0005	D01	

GENERAL NOTES:

1- Vendor to follow materials indicated in the Data Sheets, related wetted parts, these materials can be as the minimum and shall be verified by vendor.

2 - Vendor is responsible for the selection of Materials suitable for the specified working conditions.

3 - All lines below 4", shall be expanded to 4" to be suitable for thermowell installation.

4- Tag plate as per Specification for Instrumentation, shall be stainless steel 304 SS (VTC). Following details shall be engraved on them:

- Tag Number
- Range Limit
- Service
- Manufacture Model

5- All transmitters shall have output short circuit & reverse polarity protection.

6- Sunshade to be considered for all transmitters.

7- All transmitters shall have a none-volatile EEprom memory to be used for storing the configuration data and sensor linearization data. This data must be retained in the transmitter to be functional upon power up.

8- Vendor shall identify and detail any deviation from the present instrument datasheet.

9- All transmitters shall be equipped with internal diagnostics software.

10- Environmental condition for field instrumentation of Binak oilfield shall be considered as per the following (According to "BK-GNRL-PEDCO-000-PR-DB-0001: Process Basis Of Design":

Maximum ambient temperature: 50 (°C)
Minimum ambient temperature: 5 (°C)
Maximum steel surface exposed to sun: 85 (°C)
Maximum summer dry bulb: 50 (°C)
DB/RH for Summer HVAC Design: 41 °C / 61 %
DB for Winter HVAC Design: 6 °C

Relative Humidity:

- Maximum Design relative humidity (%): 100
- Minimum Design relative humidity (%): 0

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	DATA SHEETS FOR TEMPERATURE TRANSMITTER/SWITCH								
	شماره پیمان:	پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه
۰۵۳ - ۰۷۳ - ۹۱۸۴	BK	GCS	PEDCO	120	IN	DT	0005	D01	شماره صفحه: ۵ از ۷

TEMPERATURE TRANSMITTER					D01	
GENERAL DATA	1	Tag No.	SEE PAGE 6 & 7			
	2	P&ID	Service	SEE PAGE 6 & 7	SEE PAGE 6 & 7	
	3	Piping Class	Line No.	SEE PAGE 6 & 7	SEE PAGE 6 & 7	
	4	Line Size	Schedule	SEE PAGE 6 & 7	SEE PAGE 6 & 7	
	5	Area Clacification	Zone 2- IIB T4			
PROCESS CONDITION		RFI Protection	Tropicalisation	NEEDED	NEEDED	
	6	Fluid	Phase	SEE PAGE 6 & 7	SEE PAGE 6 & 7	
	7	Operating Temperature	Design Temperature (°C)	SEE PAGE 6 & 7	SEE PAGE 6 & 7	
	8	Operating Pressure	Design Pressure (barg)	SEE PAGE 6 & 7	SEE PAGE 6 & 7	
	9	Density (Winter)	Density (Summer) (Kg/m3)	SEE PAGE 6 & 7	SEE PAGE 6 & 7	
	10	Viscosity (Winter)	Viscosity (Summer) (C.P)	SEE PAGE 6 & 7	SEE PAGE 6 & 7	
TRANSMITTER	11	Velocity	(m/s)	SEE PAGE 6 & 7		
	12	Thermoelement Type	RTD			
	13	Housing Material	Die-Cast Aluminum			
	14	Power Supply	24 VDC, Loop Powered			
	15	Output Signal	Communication Protocol	4-20 mA	HART (SMART TYPE)	
	16	Instrument Range	Calibrated Range	SEE PAGE 6 & 7	VTA	
	17	Integral Digital Indicator	Scale	Required	Calibrated in Engineering unit	
	18	Accuracy	+/- 0.1 % Calibrated Span			
	19	Burn Out Direction	Up Scale			
	20	Ingress Protection	Electrical Certification	IP-65 as minimum	EEx ia, IIB T4	
	21	Electrical Connection	Cable Gland	ISO M20 x 1.5	Required	
	22	Mounting	Compact With Element			
HEAD	23	Calibration Range	Write Protection	VTA	SEE PAGE 6 & 7 (Note 3)	
	24	Head Type	Material	Top Mounted-Screwed	Die-cast aluminum with baked vinyl finish.	
	25	Terminal Block	With 4 Terminal Wires			
	26	Weather Protection	Electrical Certification	IP-65 as minimum	EEx ia, IIB T4	
	27	Electrical Connection	Cable Gland	ISO M20	Required	
TEMPERATURE ELEMENT	28	Nipple Size	1/2 " NPT			
	29	Type	RTD			
	30	Resistance	Wire Size	100 ohms at 0 degree Celsius.	VTA	
	31	Single / Double	No. of Wires	SEE PAGE 6 & 7	3 Wires	
	32	Sheath Material	Sheath OD	316 S.S	VTA	
	33	Stem Length	Leads	To Match Thermowell	VTA	
	34	Mounting Thread	Sealing	1/2 " NPT	Hermetical	
	35	Accuracy	Class A as per IEC 60751			
THERMOWELL	36	Construction Type	Drilled Bar Stock in Tapered Configuration			
	37	Element Connection	1/2" NPT			
	38	Size (in)	Rating (lbs)	SEE PAGE 6 & 7	SEE PAGE 6 & 7	
	39	Process Connection	Flange Facing / Finish (µm)	Flanged	SEE PAGE 6 & 7	
	40	Insertion Length (U) mm	LAG Extension (T) mm	SEE PAGE 6 & 7	VTA	
	41	Flange Material	Well Material	316L S.S	316L S.S	
	42	Wake Frequency Standard	Required as per ASME PTC 19.3			
	43	NACE Requirements	SEE PAGE 6 & 7 (Note 1)			
	44					
PURCHASING DATA	45	Model	Manufacturer	will be finalized later	will be finalized later	
	46	Supplier	Order	will be finalized later	will be finalized later	
	47					

NOTES :

VTA : Vendor to Advise VTC : Vendor to Confirm N/A: Not Applicable

(1) Thermowell wake frequency analysis (stress calculation) according to ASME Power Test

Code 19.3 shall be done & submitted by vendor.

(2) The element length shall be compatible with well length.

(3) The transmitters which shall be write protected are identified by note 2 in sheet 6. (Also see note 2 in sheet 7)

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			DATA SHEETS FOR TEMPERATURE TRANSMITTER/SWITCH																				
شماره پیمان: ۰۵۴ - ۰۷۳ - ۹۱۸۴			پروژه BK	بسته کاری GCS	صادر کننده PEDCO	تجهیزات 120	رشته IN	نوع مدارک DT	سریال 0005	نسخه D01	شماره صفحه: ۶ از ۷												
D01 TEMPERATURE TRANSMITTER LIST																							
Rev.	Item No.	Tag No.	P&ID No.	Service	Piping Class	Line/Equipment No.	Line Size	Fluid	Phase	Operating Temperature (°C)	Design Temperature (°C)	Operating Pressure (barg)	Design Pressure (barg)	Density (kg/m3)	Viscosity (cP)	Velocity (m/s)	Instrument Range (°C)	Calibration Range (°C)	Projection Length (mm)	Size (in)	Rating /Facing	Max Insertion Length (U) mm	Nace
D01 MODIFIED	1	TIT-2102	BK-GCS-PEDCO-120-PR-PI-0002-D04	TO INLET K.O. DRUM	AN07	GAS-111-0101-AN07-6"-PT	6"	PROCESS GAS	GAS	46.11/26.67	85	7.50	9.00	6.66	0.01	14.68	VTA	0-100	162 NOTE 1	1 1/2"	300/RF	250	YES
D01 MODIFIED	2	TIT-2104	BK-GCS-PEDCO-120-PR-PI-0003-D04	TO SLUG CATCHER	FN05	GAS-111-0001-FN05-8"-PT	8"	PROCESS GAS	GAS	32/15.5	85	7.50	9.00	6.21	0.01	9.9	VTA	0-65	162 NOTE 1	1 1/2"	600/RF	300	YES
D01 DELETED	3	TIT-2111	BK-GCS-PEDCO-120-PR-PI-0004 (1 of 2)	GAS	AN07	GAS-111-0012-AN07-14"-PT	14"	PROCESS GAS	GAS	32/15.5	85	6.50	9.00	6.21	0.01	9.9	VTA	0-65	162 NOTE 1	1 1/2"	600/RF	360	YES
D01 MODIFIED	4	TIT-2112	BK-GCS-PEDCO-120-PR-PI-0005-D04	INLET K.O. DRUM INPUT	AN07	GAS-111-0005-AN07-10"-PT	10"	PROCESS GAS	GAS	37.17/19.23	85	5.30	9.00	6.16	-	15.79	VTA	0-80	162 NOTE 1	1 1/2"	300/RF	300	YES
D01 MODIFIED	5	TIT-2121A	BK-GCS-PEDCO-120-PR-PI-0007-D04 (1 of 3)	FROM 1ST STAGE GAS COMP. SUCTION DRUM (V-2101A)	AN05	GAS-111-0031A-AN05-8"-ET	8"	PROCESS GAS	GAS	36.78/18.88	85	4.90	FV/9	5.77	0.01	12.92	VTA	0-80	162 NOTE 1	1 1/2"	300/RF	300	YES
D01 MODIFIED	6	TIT-2124A (Note 2)	BK-GCS-PEDCO-120-PR-PI-0007-D04 (1 of 3)	TO 1ST STAGE AIR COOLER (AE-2101A)	CN05	GAS-111-0036A-CN05-6"-NP	6"	PROCESS GAS	GAS	124.8/113.1	155	19.00	22.00	15.38	0.01	19.05	VTA	0-250	162 NOTE 1	1 1/2"	300/RF	250	YES
D01 MODIFIED	7	TIT-2121B	BK-GCS-PEDCO-120-PR-PI-0007-D04 (2 of 3)	FROM 1ST STAGE GAS COMP. SUCTION DRUM (V-2101B)	AN05	GAS-111-0031B-AN05-8"-ET	8"	PROCESS GAS	GAS	36.78/18.88	85	4.90	FV/9	5.77	0.01	12.92	VTA	0-80	162 NOTE 1	1 1/2"	300/RF	300	YES
D01 MODIFIED	8	TIT-2124B (Note 2)	BK-GCS-PEDCO-120-PR-PI-0007-D04 (2 of 3)	TO 1ST STAGE AIR COOLER (AE-2101B)	CN05	GAS-111-0036B-CN05-6"-NP	6"	PROCESS GAS	GAS	124.8/113.1	155	19.00	22.00	15.38	0.01	19.05	VTA	0-250	162 NOTE 1	1 1/2"	300/RF	250	YES
D01 MODIFIED	9	TIT-2121C	BK-GCS-PEDCO-120-PR-PI-0007-D04 (3 of 3)	FROM 1ST STAGE GAS COMP. SUCTION DRUM (V-2101C)	AN05	GAS-111-0031C-AN05-8"-ET	8"	PROCESS GAS	GAS	36.78/18.88	85	4.90	FV/9	5.77	0.01	12.92	VTA	0-80	162 NOTE 1	1 1/2"	300/RF	300	YES
D01 MODIFIED	10	TIT-2124C (Note 2)	BK-GCS-PEDCO-120-PR-PI-0007-D04 (3 of 3)	TO 1ST STAGE AIR COOLER (AE-2101C)	CN05	GAS-111-0036C-CN05-6"-NP	6"	PROCESS GAS	GAS	124.8/113.1	155	19.00	22.00	15.38	0.01	19.05	VTA	0-250	162 NOTE 1	1 1/2"	300/RF	250	YES
D01 MODIFIED	11	TIT-2126A	BK-GCS-PEDCO-120-PR-PI-0008-D04 (1 of 3)	AFTER 1ST STAGE AIR COOLER (AE-2101-A)	CS00	GAS-111-0037A-CS00-6"-NP	6"	PROCESS GAS	GAS	60	115.4	18.30	FV/22	18.28	0.01	7.06	VTA	0-120	162 NOTE 1	1 1/2"	300/RF	250	NO
D01 MODIFIED	12	TIT-2125A (Note 2)	BK-GCS-PEDCO-120-PR-PI-0008-D04 (1 of 3)	AFTER 1ST STAGE AIR COOLER (AE-2101-A)	CS00	GAS-111-0037A-CS00-6"-NP	6"	PROCESS GAS	GAS	60	115.4	18.30	FV/22	18.28	0.01	7.06	VTA	0-120	162 NOTE 1	1 1/2"	300/RF	250	NO
D01 MODIFIED	13	TIT-2126B	BK-GCS-PEDCO-120-PR-PI-0008-D04 (2 of 3)	AFTER 1ST STAGE AIR COOLER (AE-2101-B)	CS00	GAS-111-0037B-CS00-6"-NP	6"	PROCESS GAS	GAS	60	115.4	18.30	FV/22	18.28	0.01	7.06	VTA	0-120	162 NOTE 1	1 1/2"	300/RF	250	NO
D01 MODIFIED	14	TIT-2125B (Note 2)	BK-GCS-PEDCO-120-PR-PI-0008-D04 (2 of 3)	AFTER 1ST STAGE AIR COOLER (AE-2101-B)	CS00	GAS-111-0037B-CS00-6"-NP	6"	PROCESS GAS	GAS	60	115.4	18.30	FV/22	18.28	0.01	7.06	VTA	0-120	162 NOTE 1	1 1/2"	300/RF	250	NO
D01 MODIFIED	15	TIT-2126C	BK-GCS-PEDCO-120-PR-PI-0008-D04 (3 of 3)	AFTER 1ST STAGE AIR COOLER (AE-2101-C)	CS00	GAS-111-0037C-CS00-6"-NP	6"	PROCESS GAS	GAS	60	115.4	18.30	FV/22	18.28	0.01	7.06	VTA	0-120	162 NOTE 1	1 1/2"	300/RF	250	NO
D01 MODIFIED	16	TIT-2125C (Note 2)	BK-GCS-PEDCO-120-PR-PI-0008-D04 (3 of 3)	AFTER 1ST STAGE AIR COOLER (AE-2101-C)	CS00	GAS-111-0037C-CS00-6"-NP	6"	PROCESS GAS	GAS	60	115.4	18.30	FV/22	18.28	0.01	7.06	VTA	0-120	162 NOTE 1	1 1/2"	300/RF	250	NO
D01 MODIFIED	17	TIT-2131A	BK-GCS-PEDCO-120-PR-PI-0010-D04 (1 of 3)	FROM 2ND STAGE GAS COMP. SUCTION DRUM (V-2102A)	CN05	GAS-111-0044A-CN05-6"-ET	6"	PROCESS GAS	GAS	59.88	115.4	18.10	FV/22	18.08	0.01	7.14	VTA	0-120	162 NOTE 1	1 1/2"	300/RF	250	YES
D01 MODIFIED	18	TIT-2134A (Note 2)	BK-GCS-PEDCO-120-PR-PI-0010-D04 (1 of 3)	TO 2ND STAGE AIR COOLER (AE-2102A)	FN05	GAS-111-0051A-FN05-6"-IS	6"	PROCESS GAS	GAS	142.3/149.5	175	54.80	62.00	42.92	0.01	3	VTA	0-300	162 NOTE 1	1 1/2"	600/RF	250	YES
D01 MODIFIED	19	TIT-2131B	BK-GCS-PEDCO-120-PR-PI-0010-D04 (2 of 3)	FROM 2ND STAGE GAS COMP. SUCTION DRUM (V-2102B)	CN05	GAS-111-0044B-CN05-6"-ET	6"	PROCESS GAS	GAS	59.88	115.4	18.10	FV/22	18.08	0.01	7.14	VTA	0-120	162 NOTE 1	1 1/2"	300/RF	250	YES
D01 MODIFIED	20	TIT-2134B (Note 2)	BK-GCS-PEDCO-120-PR-PI-0010-D04 (2 of 3)	TO 2ND STAGE AIR COOLER (AE-2102B)	FN05	GAS-111-0051B-FN05-6"-IS	6"	PROCESS GAS	GAS	142.3/149.5	175	54.80	62.00	42.92	0.01	3	VTA	0-300	162 NOTE 1	1 1/2"	600/RF	250	YES
D01 MODIFIED	21	TIT-2131C	BK-GCS-PEDCO-120-PR-PI-0010-D04 (3 of 3)	FROM 2ND STAGE GAS COMP. SUCTION DRUM (V-2102C)	CN05	GAS-111-0044C-CN05-6"-ET	6"	PROCESS GAS	GAS	59.88	115.4	18.10	FV/22	18.08	0.01	7.14	VTA	0-120	162 NOTE 1	1 1/2"	300/RF	250	YES
D01 MODIFIED	22	TIT-2134C (Note 2)	BK-GCS-PEDCO-120-PR-PI-0010-D04 (3 of 3)	TO 2ND STAGE AIR COOLER (AE-2102C)	FN05	GAS-111-0051C-FN05-6"-IS	6"	PROCESS GAS	GAS	142.3/149.5	175	54.80	62.00	42.92	0.01	3	VTA	0-300	162 NOTE 1	1 1/2"	600/RF	250	YES
D01 MODIFIED	23	TIT-2135A	BK-GCS-PEDCO-120-PR-PI-0011-D04 (1 of 3)	AFTER 2ND STAGE AIR COOLER (AE-2102-A)	FS00	GAS-111-0058A-FS00-6"-NP	6"	PROCESS GAS	GAS	60	130	54.10	F.V/62	59.63	-	2.16	VTA	0-120	162 NOTE 1	1 1/2"	600/RF	250	NO
D01 MODIFIED	24	TIT-2136A (Note 2)	BK-GCS-PEDCO-120-PR-PI-0011-D04 (1 of 3)	AFTER 2ND STAGE AIR COOLER (AE-2102-A)	FS00	GAS-111-0058A-FS00-6"-NP	6"	PROCESS GAS	GAS	60	130	54.10	F.V/62	59.63	-	2.16	VTA	0-120	162 NOTE 1	1 1/2"	600/RF	250	NO
D01 MODIFIED	25	TIT-2135B	BK-GCS-PEDCO-120-PR-PI-0011-D04 (2 of 3)	AFTER 2ND STAGE AIR COOLER (AE-2102-B)	FS00	GAS-111-0058B-FS00-6"-NP	6"	PROCESS GAS	GAS	60	130	54.10	F.V/62	59.63	-	2.16	VTA	0-120	162 NOTE 1	1 1/2"	600/RF	250	NO



NISOC

نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

DATA SHEETS FOR TEMPERATURE TRANSMITTER/SWITCH



شماره پیمان:

۹۱۸۴ - ۷۳ - ۰۴۰

بروز:

BK

بسته کاری:

GCS

صادر کننده:

PEDCO

تجهیزات:

120

رشته:

IN

نوع مدارک:

DT

سریال:

0005

نسخه:

D01

شماره صفحه: ۷ از ۷



TEMPERATURE TRANSMITTER LIST

Rev.	Item No.	Tag No.	P&ID No.	Service	Piping Class	Line/Equipment No.	Line Size	Fluid	Phase	Operating Temperature (°C)	Design Temperature (°C)	Operating Pressure (bar)	Design Pressure (bar)	Density (kg/m ³)	Viscosity (cP)	Velocity (m/s)	Instrument Range (°C)	Calibration Range (°C)	Projection Length (mm)	Size (in)	Rating /Facing □	Max Insertion Length (U) mm	Nace
D01 MODIFIED	26	TIT-2136B (Note 2)	BK-GCS-PEDCO-120-PR-PI-0011-D04 (2 of 3)	AFTER 2ND STAGE AIR COOLER (AE-2102-B)	FS00	GAS-111-0058B-FS00-6"-NP	6"	PROCESS GAS	GAS	60	130	54.10	F.V/62	59.63	-	2.16	VTA	0-120	162 NOTE 1	1 1/2"	600/RF	250	NO
D01 MODIFIED	27	TIT-2135C	BK-GCS-PEDCO-120-PR-PI-0011-D04 (3 of 3)	AFTER 2ND STAGE AIR COOLER (AE-2102-C)	FS00	GAS-111-0058C-FS00-6"-NP	6"	PROCESS GAS	GAS	60	130	54.10	F.V/62	59.63	-	2.16	VTA	0-120	162 NOTE 1	1 1/2"	600/RF	250	NO
D01 MODIFIED	28	TIT-2136C (Note 2)	BK-GCS-PEDCO-120-PR-PI-0011-D04 (3 of 3)	AFTER 2ND STAGE AIR COOLER (AE-2102-C)	FS00	GAS-111-0058C-FS00-6"-NP	6"	PROCESS GAS	GAS	60	130	54.10	F.V/62	59.63	-	2.16	VTA	0-120	162 NOTE 1	1 1/2"	600/RF	250	NO
D01 ADDED	29	TT-2211	BK-GCS-PEDCO-120-PR-PI-0016-D04	NITROGEN RECEIVER OUTLET	AN01	NIT-112-0024-AN01-2"-PT	2"	NITROGEN	GAS	60	85	8.00	12.50	8.65	0.02	0.42	VTA	0-100	162 NOTE 1	1 1/2"	300/RF	200 (NOTE 3 IN GENERAL NOTES)	NO
D01 MODIFIED	30	TIT-2271	BK-GCS-PEDCO-120-PR-PI-0022-D04	FUEL GAS K.O. DRUM OUTLET	AN07	FLG-112-0110-AN07-2"-PT	2"	FUEL GAS	GAS	36.7	85	4.90	F.V/9	5.96	0.01	50.8	VTA	0-80	162 NOTE 1	1 1/2"	300/RF	200 (NOTE 3 IN GENERAL NOTES)	YES

NOTES:

(1) Projection Length (mm) will be finalized by piping department.

(2) Transmitters shall be of the smart transmitter type with HART communication protocol, except those connected to the ESD/HIPPS/FGS system that will be preferably of conventional electronic type. If smart type transmitters are selected for ESD application they shall be configured as "write protected".