

 NISOC	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک						 		
	DATA SHEETS FOR TEMPERATURE TRANSMITTER								
شماره پیمان: 053 - 073 - 9184	پروژه BK	بسته کاری GCS	صادر کننده PEDCO	تسهیلات 120	رشته IN	نوع مدرک DT	سریال 0005	نسخه D03	شماره صفحه: 1 از 7

طرح نگهداشت و افزایش تولید 27 مخزن

DATA SHEET FOR TEMPERATURE TRANSMITTER

نگهداشت و افزایش تولید میدان نفتی بینک

D03	JAN.2025	AFC	P.Hajisadeghi	M.Fakharian	S.Faramarzpour	
D02	JUN.2023	AFC	P.Hajisadeghi	M.Fakharian	A.M.Mohseni	
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 : 1

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



NISOC

نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



DATA SHEETS FOR TEMPERATURE TRANSMITTER

شماره پیمان:

053 - 073 - 9184

نسخه	سریال	نوع مدرک	رشته	تسهیلات	صادر کننده	بسته کاری	پروژه
D03	0005	DT	IN	120	PEDCO	GCS	BK

شماره صفحه: 2 از 7

REVISION RECORD SHEET

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

شماره پیمان:

053 - 073 - 9184

پروژه

BK

بسته کاری

GCS

صادرکننده

PEDCO

تسهیلات

120

رشته

IN

نوع مدرک

DT

سریال

0005

نسخه

D03

شماره صفحه: 3 از 7

REFERENCE DOCUMENTS :

Specification For Instrumentation
Process Basis Of Design
Piping Material Specification
Hazardous Area Classification Layout
Instrument & Control System Design Criteria

Symbol & Legend For PFD and P&ID
P&ID - Gas Compression Inlet Gas Pipeline (Binak)
P&ID - Gas Compression Inlet Gas Pipeline (Golkhari)
P&ID - Slug Catcher System
P&ID - Gas Compression Inlet Knock Out Drum
P&ID - 1st Stage Gas Compression Suction Drums
P&ID - 1st Stage Gas Compression Compressors
P&ID - 1st Stage Gas Compression Air Coolers
P&ID - 2nd Stage Gas Compression Suction Drums
P&ID - 2nd Stage Gas Compression Compressors
P&ID - 2nd Stage Gas Compression Air Coolers
P&ID - 2nd Stage Gas Compression Discharge Drum
P&ID - Gas Compression Dehydration Package
P&ID - Lean Glycol Storage Tank
P&ID - Instrument & Plant Air System
P&ID - Nitrogen Generation System
P&ID - Close Drain System
P&ID - Corrosion Inhibitor Package
P&ID - Methanol Injection Package
P&ID - LP Flare System
P&ID - Oily Water Sewer
P&ID - Fuel Gas System
P&ID - Diesel Oil System
P&ID - Potable Water System
P&ID - Glycol Sump Drum
P&ID - Fire Water Network
P&ID - Total Flooding System For Extension of Existing Elect. Building

D03

BK-GNRAL-PEDCO-000-IN-SP-0001-D03
BK-GNRAL-PEDCO-000-PR-DB-0001-D08
BK-GCS-PEDCO-120-PI-SP-0001-D06
BK-GCS-PEDCO-120-SA-PY-0002-D02
BK-GCS-PEDCO-120-IN-DC-0002-D02

BK-GCS-PEDCO-120-PR-PI-0001-D06
BK-GCS-PEDCO-120-PR-PI-0002-D08
BK-GCS-PEDCO-120-PR-PI-0003-D08
BK-GCS-PEDCO-120-PR-PI-0004-D10
BK-GCS-PEDCO-120-PR-PI-0005-D10
BK-GCS-PEDCO-120-PR-PI-0006-D10
BK-GCS-PEDCO-120-PR-PI-0007-D09
BK-GCS-PEDCO-120-PR-PI-0008-D10
BK-GCS-PEDCO-120-PR-PI-0009-D09
BK-GCS-PEDCO-120-PR-PI-0010-D08
BK-GCS-PEDCO-120-PR-PI-0011-D10
BK-GCS-PEDCO-120-PR-PI-0012-D09
BK-GCS-PEDCO-120-PR-PI-0013-D09
BK-GCS-PEDCO-120-PR-PI-0014-D09
BK-GCS-PEDCO-120-PR-PI-0015-D08
BK-GCS-PEDCO-120-PR-PI-0016-D08
BK-GCS-PEDCO-120-PR-PI-0017-D09
BK-GCS-PEDCO-120-PR-PI-0018-D09
BK-GCS-PEDCO-120-PR-PI-0019-D07
BK-GCS-PEDCO-120-PR-PI-0020-D09
BK-GCS-PEDCO-120-PR-PI-0021-D05
BK-GCS-PEDCO-120-PR-PI-0022-D09
BK-GCS-PEDCO-120-PR-PI-0023-D08
BK-GCS-PEDCO-120-PR-PI-0024-D08
BK-GCS-PEDCO-120-PR-PI-0025-D09
BK-GCS-PEDCO-120-SA-PI-0001-D06
BK-GCS-PEDCO-120-SA-PI-0002-D03

 NISOC	 شرکت پالایش و پخش نفت ایران  نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک							
	DATA SHEETS FOR TEMPERATURE TRANSMITTER							
	شماره پیمان:	پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال
053 - 073 - 9184	BK	GCS	PEDCO	120	IN	DT	0005	D03

شماره صفحه: 4 از 7

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-GNRAL-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

 NISOC	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک							
	DATA SHEETS FOR TEMPERATURE TRANSMITTER							
شماره پیمان: 053 - 073 - 9184	پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدرک	سریال	نسخه
	BK	GCS	PEDCO	120	IN	DT	0005	D03
								شماره صفحه: 5 از 7

TEMPERATURE TRANSMITTER				
GENERAL DATA	1	Tag No.	SEE PAGE 6 & 7	
	2	P&ID	Service	SEE PAGE 6 & 7
	3	Piping Class	Line No.	SEE PAGE 6 & 7
	4	Line Size	Schedule	SEE PAGE 6 & 7
	5	Area Clacification	Zone 2- IIB T4	
PROCESS CONDITION		RFI Protection	Tropicalisation	NEEDED
	6	Fluid	Phase	SEE PAGE 6 & 7
	7	Operating Temperature	Design Temperature (°C)	SEE PAGE 6 & 7
	8	Operating Pressure	Design Pressure (barg)	SEE PAGE 6 & 7
	9	Density (Winter)	Density (Summer) (Kg/m3)	SEE PAGE 6 & 7
	10	Viscosity (Winter)	Viscosity (Summer) (C.P)	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
HEAD	22	Mounting	Compact With Element	
	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	
TEMPERATURE ELEMENT	26	Weather Protection	Electrical Certification	IP-65 as minimum EEx ia,IIB T4
	27	Electrical Connection	Cable Gland	ISO M20 Required
	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
THERMOWELL	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	
	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
PURCHASING DATA	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			
	45	Model	Manufacturer	will be finalized later will be finalized later
	46	Supplier	Order	will be finalized later will be finalized later

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)

 NISOC			نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک							 													
شماره پیمان: 053 - 073 - 9184			پروژه BK	بسته کاری GCS	صادر کننده PEDCO	انتهیات 120	رشته IN	نوع مدرک DT	متریال 0005	لخته D03	شماره صفحه: 6 از 7												
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
D03	1	TIT-2102	BK-GCS-PEDCO-120-PR-PI-0002-D08	TO INLET K.O. DRUM	AN07	GAS-111-0101-AN07-6"-PT	6"	PROCESS GAS	GAS	26.67-46.11	85	5.50	18.20	6.66	0.01	16.15	VTA	0-100	162 NOTE 1	1 1/2"	300/RF	250	YES
D03	2	TIT-2104	BK-GCS-PEDCO-120-PR-PI-0003-D08	TO SLUG CATCHER	FN07	GAS-111-0001-FN07-8"-PT	8"	PROCESS GAS	GAS	15-32	175	6.75	90.00	6.21	0.01	17.17	VTA	0-200	162 NOTE 1	1 1/2"	600/RF	300	YES
D03	3	TIT-2112	BK-GCS-PEDCO-120-PR-PI-0005-D10	INLET K.O. DRUM INPUT	AN07	GAS-111-0005-AN07-10"-PT	10"	PROCESS GAS	GAS	37.17-19.23	85	5.30	18.20	6.16	0.01	17.37	VTA	0-100	162 NOTE 1	1 1/2"	300/RF	300	YES
D03	4	TIT-2121A	BK-GCS-PEDCO-120-PR-PI-0007-D09 (1 of 3)	FROM 1ST STAGE GAS COMP. SUCTION DRUM (V-2101A)	CN05	GAS-111-0031A-CN05-8"-ET	8"	PROCESS GAS	GAS	18.88-36.78	155	4.90	47.7	5.77	0.01	14.21	VTA	0-200	162 NOTE 1	1 1/2"	300/RF	300	YES
D03	5	TIT-2124A (Note 2)	BK-GCS-PEDCO-120-PR-PI-0007-D09 (1 of 3)	TO 1ST STAGE AIR COOLER (AE-2101A)	CN05	GAS-111-0036A-CN05-6"-IS	6"	PROCESS GAS	GAS	116-129	155	18	47.7	15.38	0.01	9.23	VTA	0-200	162 NOTE 1	1 1/2"	300/RF	250	YES
D03	6	TIT-2121B	BK-GCS-PEDCO-120-PR-PI-0007-D09 (2 of 3)	FROM 1ST STAGE GAS COMP. SUCTION DRUM (V-2101B)	CN05	GAS-111-0031B-CN05-8"-ET	8"	PROCESS GAS	GAS	18.88-36.78	155	4.90	47.7	5.7715	0.01	14.21	VTA	0-200	162 NOTE 1	1 1/2"	300/RF	300	YES
D03	7	TIT-2124B (Note 2)	BK-GCS-PEDCO-120-PR-PI-0007-D09 (2 of 3)	TO 1ST STAGE AIR COOLER (AE-2101B)	CN05	GAS-111-0036B-CN05-6"-IS	6"	PROCESS GAS	GAS	116-129	155	18	47.7	15.38	0.01	9.23	VTA	0-200	162 NOTE 1	1 1/2"	300/RF	250	YES
D03	8	TIT-2121C	BK-GCS-PEDCO-120-PR-PI-0007-D09 (3 of 3)	FROM 1ST STAGE GAS COMP. SUCTION DRUM (V-2101C)	CN05	GAS-111-0031C-CN05-8"-ET	8"	PROCESS GAS	GAS	18.88-36.78	155	4.90	47.7	5.77	0.01	14.21	VTA	0-200	162 NOTE 1	1 1/2"	300/RF	300	YES
D03	9	TIT-2124C (Note 2)	BK-GCS-PEDCO-120-PR-PI-0007-D09 (3 of 3)	TO 1ST STAGE AIR COOLER (AE-2101C)	CN05	GAS-111-0036C-CN05-6"-IS	6"	PROCESS GAS	GAS	116-129	155	18	47.7	15.38	0.01	9.23	VTA	0-200	162 NOTE 1	1 1/2"	300/RF	250	YES
D03	10	TIT-2126A	BK-GCS-PEDCO-120-PR-PI-0008-D10 (1 of 3)	AFTER 1ST STAGE AIR COOLER (AE-2101-A)	CS00	GAS-111-0037A-CS00-6"-IS	6"	PROCESS GAS	GAS	60	155	17.20	30.3	18.28	0.01	7.77	VTA	0-200	162 NOTE 1	1 1/2"	300/RF	250	YES
D03	11	TIT-2125A (Note 2)	BK-GCS-PEDCO-120-PR-PI-0008-D10 (1 of 3)	AFTER 1ST STAGE AIR COOLER (AE-2101-A)	CS00	GAS-111-0037A-CS00-6"-IS	6"	PROCESS GAS	GAS	60	155	17.20	30.3	18.28	0.01	7.77	VTA	0-200	162 NOTE 1	1 1/2"	300/RF	250	YES
D03	12	TIT-2126B	BK-GCS-PEDCO-120-PR-PI-0008-D10 (2 of 3)	AFTER 1ST STAGE AIR COOLER (AE-2101-B)	CS00	GAS-111-0037B-CS00-6"-IS	6"	PROCESS GAS	GAS	60	155	17.20	30.3	18.28	0.01	7.77	VTA	0-200	162 NOTE 1	1 1/2"	300/RF	250	YES
D03	13	TIT-2125B (Note 2)	BK-GCS-PEDCO-120-PR-PI-0008-D10 (2 of 3)	AFTER 1ST STAGE AIR COOLER (AE-2101-B)	CS00	GAS-111-0037B-CS00-6"-IS	6"	PROCESS GAS	GAS	60	155	17.20	30.3	18.28	0.01	7.77	VTA	0-200	162 NOTE 1	1 1/2"	300/RF	250	YES
D03	14	TIT-2126C	BK-GCS-PEDCO-120-PR-PI-0008-D10 (3 of 3)	AFTER 1ST STAGE AIR COOLER (AE-2101-C)	CS00	GAS-111-0037C-CS00-6"-IS	6"	PROCESS GAS	GAS	60	155	17.20	30.3	18.28	0.01	7.77	VTA	0-200	162 NOTE 1	1 1/2"	300/RF	250	YES
D03	15	TIT-2125C (Note 2)	BK-GCS-PEDCO-120-PR-PI-0008-D10 (3 of 3)	AFTER 1ST STAGE AIR COOLER (AE-2101-C)	CS00	GAS-111-0037C-CS00-6"-IS	6"	PROCESS GAS	GAS	60	155	17.20	30.3	18.28	0.01	7.77	VTA	0-200	162 NOTE 1	1 1/2"	300/RF	250	YES
D03	16	TIT-2131A	BK-GCS-PEDCO-120-PR-PI-0010-D08 (1 of 3)	FROM 2ND STAGE GAS COMP. SUCTION DRUM (V-2102A)	CN05	GAS-111-0044A-CN05-6"-ET	6"	PROCESS GAS	GAS	59.88-59.89	155	17.00	47.7	18.08	0.01	7.85	VTA	0-200	162 NOTE 1	1 1/2"	300/RF	250	YES
D03	17	TIT-2134A (Note 2)	BK-GCS-PEDCO-120-PR-PI-0010-D08 (1 of 3)	TO 2ND STAGE AIR COOLER (AE-2102A)	FN05	GAS-111-0051A-FN05-6"-IS	6"	PROCESS GAS	GAS	148/149	175	54.80	90	42.92	0.01	3.31	VTA	0-200	162 NOTE 1	1 1/2"	600/RF	250	YES
D03	18	TIT-2131B	BK-GCS-PEDCO-120-PR-PI-0010-D08 (2 of 3)	FROM 2ND STAGE GAS COMP. SUCTION DRUM (V-2102B)	CN05	GAS-111-0044B-CN05-6"-ET	6"	PROCESS GAS	GAS	59.88-59.89	155	17.00	47.7	18.08	0.01	7.85	VTA	0-200	162 NOTE 1	1 1/2"	300/RF	250	YES
D03	19	TIT-2134B (Note 2)	BK-GCS-PEDCO-120-PR-PI-0010-D08 (2 of 3)	TO 2ND STAGE AIR COOLER (AE-2102B)	FN05	GAS-111-0051B-FN05-6"-IS	6"	PROCESS GAS	GAS	148/149	175	54.80	90	42.92	0.01	3.31	VTA	0-200	162 NOTE 1	1 1/2"	600/RF	250	YES
D03	20	TIT-2131C	BK-GCS-PEDCO-120-PR-PI-0010-D08 (3 of 3)	FROM 2ND STAGE GAS COMP. SUCTION DRUM (V-2102C)	CN05	GAS-111-0044C-CN05-6"-ET	6"	PROCESS GAS	GAS	59.88-59.89	155	17.00	47.7	18.08	0.01	7.85	VTA	0-200	162 NOTE 1	1 1/2"	300/RF	250	YES
D03	21	TIT-2134C (Note 2)	BK-GCS-PEDCO-120-PR-PI-0010-D08 (3 of 3)	TO 2ND STAGE AIR COOLER (AE-2102C)	FN05	GAS-111-0051C-FN05-6"-IS	6"	PROCESS GAS	GAS	148/149	175	54.80	90	42.92	0.01	3.31	VTA	0-200	162 NOTE 1	1 1/2"	600/RF	250	YES
D03	22	TIT-2135A	BK-GCS-PEDCO-120-PR-PI-0011-D10 (1 of 3)	AFTER 2ND STAGE AIR COOLER (AE-2102-A)	FS00	GAS-111-0055A-FS00-6"-IS	6"	PROCESS GAS	GAS	60	175	54.10	62	59.63	0.01	2.38	VTA	0-200	162 NOTE 1	1 1/2"	600/RF	250	YES
D03	23	TIT-2136A (Note 2)	BK-GCS-PEDCO-120-PR-PI-0011-D10 (1 of 3)	AFTER 2ND STAGE AIR COOLER (AE-2102-A)	FS00	GAS-111-0055A-FS00-6"-IS	6"	PROCESS GAS	GAS	60	175	54.10	62	59.63	0.01	2.38	VTA	0-200	162 NOTE 1	1 1/2"	600/RF	250	YES
D03	24	TIT-2135B	BK-GCS-PEDCO-120-PR-PI-0011-D10 (2 of 3)	AFTER 2ND STAGE AIR COOLER (AE-2102-B)	FS00	GAS-111-0055B-FS00-6"-IS	6"	PROCESS GAS	GAS	60	175	54.10	62	59.63	0.01	2.38	VTA	0-200	162 NOTE 1	1 1/2"	600/RF	250	YES
D03	25	TIT-2136B (Note 2)	BK-GCS-PEDCO-120-PR-PI-0011-D10 (2 of 3)	AFTER 2ND STAGE AIR COOLER (AE-2102-B)	FS00	GAS-111-0055B-FS00-6"-IS	6"	PROCESS GAS	GAS	60	175	54.10	62	59.63	0.01	2.38	VTA	0-200	162 NOTE 1	1 1/2"	600/RF	250	YES
D03	26	TIT-2135C	BK-GCS-PEDCO-120-PR-PI-0011-D10 (3 of 3)	AFTER 2ND STAGE AIR COOLER (AE-2102-C)	FS00	GAS-111-0055C-FS00-6"-IS	6"	PROCESS GAS	GAS	60	175	54.10	62	59.63	0.01	2.38	VTA	0-200	162 NOTE 1	1 1/2"	600/RF	250	YES
D03	27	TIT-2136C (Note 2)	BK-GCS-PEDCO-120-PR-PI-0011-D10 (3 of 3)	AFTER 2ND STAGE AIR COOLER (AE-2102-C)	FS00	GAS-111-0055C-FS00-6"-IS	6"	PROCESS GAS	GAS	60	175	54.10	62	59.63	0.01	2.38	VTA	0-200	162 NOTE 1	1 1/2"	600/RF	250	YES



NISOC

نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

DATA SHEETS FOR TEMPERATURE TRANSMITTER



شماره صفحه: 7 از 7

شماره پیمان:
053 - 073 - 9194

پروژه

BK

بسته کاری

GCS

صادر کننده

PEDCO

انتهایات

120

رشته

IN

نوع مدرک

DT

سریال

0005

نسخه

D03

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/m ³)	Viscosity (cP)	Velocity (m/s)	Instrument Range (°C)	Calibration Range (°C)	Projection Length (mm)	Size (in)	Rating /Facing	Max Insertion Length (ft)	Nace
D03	28	TT-2211	BK-GCS-PEDCO-120-PR-PI-0016-D08	NITROGEN RECEIVER OUTLET	AN01	NIT-112-0024-AN01-2"-PT	4" (Note 3 in general notes)	NITROGEN	GAS	60	85	8	18.20	8.62	0.02	0.63	VTA	0-100	162 NOTE 1	1 1/2"	300/RF	200 (NOTE 3 IN GENERAL NOTES)	NO
D03	29	TIT-2271	BK-GCS-PEDCO-120-PR-PI-0022-D09	FUEL GAS K.O. DRUM OUTLET	AN07	FLG-112-0106-AN07-2"-PT	4" (Note 3 in general notes)	FUEL GAS	GAS	36.7	85	4.9	18.20	5.77	0.01	0.64	VTA	0-100	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 protection".